

September 17, 2007 Crisco v. United States of America
Case No. 3:03-cv-0011-HRH

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IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF ALASKA

JOHNNIE CRISCO and THE ESTATE)
OF ANNA CRISCO by HER PERSONAL)
REPRESENTATIVE, ROBIN BOOKER,)
)
Plaintiffs,)
)
vs.)
)
UNITED STATES OF AMERICA,)
)
Defendant.)
)

Case No. 3:03-cv-0011-HRH

TRANSCRIPT OF EXCERPT OF PROCEEDINGS
HELD BEFORE THE HONORABLE H. RUSSEL HOLLAND
Monday, September 17, 2007

Testimony of Dr. Hall and Dr. Bhagia
Pages 1 - 189, inclusive
Anchorage, Alaska

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3 WITNESS:

4 ROBERT J. HALL

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1 ANCHORAGE, ALASKA; MONDAY, SEPTEMBER 17, 2007

2 -00-

3 * * * * *

4 (Counter 09:06:37)

5 MR. KAPOLCHOK: Your Honor, we'd call as
6 our first witness Dr. Robert Hall.7 THE CLERK: Dr. Hall, please stand up
8 before me so I can swear you in.

9 Please raise your right hand.

10 (Witness sworn.)

11 THE CLERK: Thank you. Please have a seat
12 in the witness box.13 Please speak into the microphone at all
14 times.15 Please state your full name, spelling your
16 last name, and a current address.17 THE WITNESS: My name is Robert J. Hall.
18 Was that spell the last name? I'm sorry.

19 THE CLERK: Yes, sir.

20 THE WITNESS: H-A-L-L. My address, home
21 address is 9875 Middle Rock Road, Anchorage, Alaska,
22 99507.

23 THE CLERK: Thank you.

24 MR. KAPOLCHOK: Thank you, Your Honor.

25 ///

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1 DIRECT EXAMINATION

2 BY MR. KAPOLCHOK:

3 Q. Good morning, Dr. Hall.

4 A. Good morning.

5 Q. As you can see, this is -- this courtroom
6 is kind of oriented for you to speak to the jury;
7 but in this case, as the judge said, he is the
8 finder of fact. I'm on your left; he's on your
9 right. I'll leave it to you to -- if you need to
10 explain something, to turn to him or -- I know it's
11 cumbersome, but it certainly should work out all
12 right.13 To begin by introducing you, Dr. Hall,
14 what is your profession?

15 A. An orthopedic surgeon.

16 Q. And tell us about your practice. And
17 let's start with your association with the group you
18 work with, what's their name?19 A. Our group is named is Orthopedic
20 Physicians of Anchorage. I joined them in 2000.21 Q. In 2000? And how many orthopedic surgeons
22 are in that group, sir?

23 A. Currently we have seven.

24 Q. Could you name them?

25 A. Ed Voke, James Eule, Eugene Chang.

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1 William Mills, Chris Manion, Mark Kornmesser.

2 Q. Okay. Is Dr. Voke still practicing?

3 A. Part time.

4 Q. Within that group, Doctor -- well, let me
5 back up.

6 Physically, where do you all practice?

7 A. Our office is at 3801 Lake Otis.

8 Q. Is that that recent new structure that's
9 been constructed on --

10 A. Yes.

11 Q. Within that practice, Doctor, do you as a
12 group tend to specialize or focus on certain areas
13 of orthopedics?

14 A. We do.

15 Q. And what is yours?

16 A. My focus is in joint replacement.

17 Q. Are you board certified, Doctor?

18 A. Yes.

19 Q. And when did you become board certified as
20 an orthopedic surgeon?

21 A. Board certified in 1997. I just completed
22 my re-certification this year for an additional ten
23 years.

24 Q. And how long have you been licensed to
25 practice medicine in Alaska?

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1 A. Since 1995.

2 Q. And, Doctor, are you a member of any
3 associations, such as the American Medical
4 Association?

5 A. American Academy of Orthopedic Surgeons,
6 Anchorage Orthopedic Society, and Alaska State
7 Medical Association.

8 Q. How long have you been in private
9 practice?

10 A. Since January of 2000.

11 Q. And prior to that, prior to being in
12 private practice, tell us what clinical experience
13 you have.

14 A. My first position was a staff orthopedic
15 surgeon at Alaska Native Medical Center from, I
16 think it was, June of '95 until December of '99.

17 Q. Roughly five years with ANMC?

18 A. Correct.

19 Q. Did that work with ANMC provide a lot of
20 surgical opportunities?

21 A. Yes.

22 Q. Was that five years of broad orthopedic
23 practice?

24 A. Yeah, very broad.

25 Q. Could you tell the judge what your

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1 education was leading to becoming an orthopedic
2 surgeon. Just outline it for us, if you could,
3 please.

4 A. I did undergraduate work at Iowa State
5 University, had a BA in chemistry. Then I went to
6 the University of Iowa medical school. I did a
7 rotating internship at Sacred Heart Medical Center
8 in Spokane, Washington. And I did four years of
9 orthopedic residency at the San Francisco orthopedic
10 residency training program in San Francisco.

11 Q. And then to Alaska?

12 A. Correct.

13 Q. Okay. Dr. Hall, this case involves a
14 total knee replacement, correct?

15 A. Correct.

16 Q. When did you first get exposed or when
17 were you first trained to do that orthopedic
18 procedure? When and where, is what I'm getting at.

19 A. During residency. Actually, my first year
20 of residency I had done total knee replacements
21 under supervision.

22 Q. Under supervision?

23 A. Yeah.

24 Q. And how is a physician, an orthopedic
25 physician, instructed or instructed and taught to be

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1 able to do that procedure on his own?

2 A. Well, you're expected to read -- as a
3 resident, you're expected to read the manuals and
4 all that. And then they're done -- they're done
5 under direct supervision of a supervising physician
6 when you're performing them as a resident.

7 Q. Is there a period where you observe them
8 being done?

9 A. Yes.

10 Q. Is there a period where you assist them
11 being done?

12 A. Yes.

13 Q. And then eventually you're allowed to do
14 them under the supervision?

15 A. Correct.

16 Q. How many procedures were you either
17 observing, allowed to assist, or eventually allowed
18 to perform on your own under direct supervision
19 before you could go ahead and just Dr. Hall and his
20 assistant walk in and do the procedure? Can you
21 estimate the number?

22 A. During training, you mean, how many?

23 Q. Yes.

24 A. I was probably involved in a hundred of
25 them, knee replacements, I would imagine.

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1 Q. The -- let me ask you to do this. Before
2 jumping into your treatment of Mr. Crisco, I'm
3 wondering if you could give us a real basic primer
4 on the anatomy and physiology --

5 THE CLERK: Mr. Kapolchok, can I ask you
6 to please wear either the lapel mike or get closer
7 to a microphone.

8 MR. KAPOLCHOK: Okay. Thank you.

9 BY MR. KAPOLCHOK:

10 Q. Dr. Hall, I'm going to hand you a model of
11 the knee. And you brought the model of the knee
12 with you?

13 A. It's a model of a knee with a knee
14 replacement on it.

15 MR. KAPOLCHOK: I don't need to wear this
16 if I stand over here; is that all right?

17 THE CLERK: That's fine.

18 MR. KAPOLCHOK: Okay. Thanks.

19 BY MR. KAPOLCHOK:

20 Q. Doctor, could you identify for the court
21 the major components of the knee joint in bones.

22 A. It's a pretty large topic. You know, this
23 is the thighbone or femur bone, and the tibia or
24 shinbone, and the fibula, which is the bone on the
25 side.

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1 And then as far as arthritis is concerned,
2 one of the main things that -- concerned about is
3 the cartilage that covers the entire end of the
4 bone, which is called articular cartilage. And that
5 covers the entire end of the femur bone and entire
6 top of the tibia bone, and then the back side of the
7 patella or kneecap. And the wear of that is what
8 arthritis is, and that's what generally leads to
9 knee replacement.

10 And then other structures that are
11 important during the knee replacement are the
12 ligaments of the knee. There are two on the sides
13 of the knee called collateral ligaments. There is
14 one on this side called the lateral collateral. One
15 on this side called the medial collateral.

16 And there is two in the middle underneath
17 the kneecap. One called the ACL, or anterior
18 cruciate ligament. Another one on the back called
19 the PCL, or posterior cruciate ligament.

20 And then I guess one other thing germane
21 to this case is the top of the tibia is not
22 perpendicular to the long axis of the shaft of the
23 tibia bone. It's actually tipped back a little bit.
24 The terminology used for that is slope. If you take
25 this long axis and make a perpendicular to that, if

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1 it's tipped back that's the term posterior slope.

2 If it's tipped higher than the perpendicular, that's
3 considered anterior slope.

4 Q. Are most of us built then with a normal or
5 natural posterior slope?

6 A. Yes.

7 Q. And how does that mechanically or in terms
8 of biomechanics --

9 A. Well, the --

10 Q. -- interacting with -- you know, I'll get
11 it out eventually, Doctor. I know we talked about
12 this.

13 In interacting with the femoral component,
14 why is that so?

15 A. Well, the end of the femur bone is not a
16 half circle. It has this oblong shape which allows
17 more motion of the knee. If it was perfectly round,
18 then you would only have 90 degrees of motion before
19 this came around and hit the back of the knee. So
20 it allowed the motion it does have, it's got this
21 oblong contour.

22 And if it's not tipped this way, it has
23 trouble coming around -- the tibia bone can't come
24 around the corner of the femur, at least it has more
25 difficulty doing so.

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1 THE COURT: If it's not tipped back?

2 THE WITNESS: If it's not tipping back.

3 If it's tipped this way, you can kind of get the
4 idea as it comes around it would be -- it would be
5 very tight here in the back as it came around this
6 way.

7 BY MR. KAPOLCHOK:

8 Q. Now, in doing a knee replacement,
9 components are provided in sort of a kit or a
10 package?

11 A. Well, there are various sizes available
12 and you make measurements and then you select from
13 the inventory that you have of sizes.

14 Q. Now, you prefer a particular manufacturer
15 knee replacement?

16 A. I do.

17 Q. And what is that, Doctor?

18 A. The brand is called Zimmer, or the
19 manufacturer is Zimmer.

20 Q. That's Z-I-M-M-E-R?

21 A. Yes.

22 Q. All right. And are the components
23 designed in the Zimmer were a particular slope?

24 A. Yes, they are.

25 Q. And do you know what that slope is?

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1 A. 7 degrees posterior slope.

2 Q. Posterior?

3 A. Uh-huh.

4 Q. Now, the knee that Mr. Crisco had, and I
5 will get in and walk you through the records and
6 your treatment of Mr. Chris, was a Profix knee?

7 A. Yes.

8 Q. All right. And have you had any
9 experience in installing Profix knees?

10 A. No, I have not.

11 Q. Other than you revised Mr. Crisco's knee,
12 other than his knee, have you revised any other
13 Profix knees that you can recall?

14 A. Not that I can recall.

15 Q. I'd like to go through your treatment of
16 Mr. Crisco, Doctor, and I'll hand you...

17 I'm looking for our original exhibits;
18 here they are.

19 Dr. Hall -- I'll not talk when I'm away
20 from this mike here, or try not to.

21 I handed you a notebook marked as
22 plaintiff's exhibits. And if you'll notice, they
23 are divided into numerical bundles. I'd like to
24 focus mainly on Exhibit 2, which are your Orthopedic
25 Physicians of Anchorage notes, and Exhibit 7, which

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1 are Providence Hospital selected records, primarily
2 your records created at the hospital.

3 Have you had a chance to review those
4 prior to this morning?

5 A. Yes, I have.

6 Q. Okay. Before I go through them, could you
7 give us kind of an overview or a summary, just
8 hitting the high points, a summary of your meeting
9 with Mr. Crisco, what you did, and the various
10 procedures that followed meeting Mr. Crisco. Just
11 kind of an overview so we can then fit in the
12 details.

13 A. I first saw Mr. Crisco in October 2001
14 that complained of, you know, the painful knee
15 arthroplasty. And evaluated him with x-rays and a
16 bone scan. He had had some previous workup done at
17 the VA, which he also had records of.

18 And as a result of that, felt that he had
19 a mechanical malalignment of his knee. And offered
20 him a revision of that knee, which he elected to do
21 and subsequently did do. And then that
22 unfortunately became infected.

23 And then we attempted to salvage that
24 knee. And actually -- well, there's quite a few
25 surgeries. But we first attempted to salvage and

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1 retain his knee and that failed. Then we had to
2 take everything out, all the metal components. And
3 he ended up doing long-term IV antibiotics for a
4 period.

5 And then at that point it appeared the
6 infection was -- had been treated by lab work and
7 cultures, and we went back in and put in another
8 knee. And unfortunately, that one became infected
9 as well. And then tried to salvage that knee with
10 another surgery, and unfortunately that didn't work
11 either.

12 And then he had a chronic infected knee
13 that was treated for quite a while with suppressive
14 antibiotics. And then he continued to have
15 significant pain, and so we offered him several
16 options, as far as surgery.

17 And he elected to have the amputation
18 surgery performed, which was then done. And then
19 there was an additional surgery after the amputation
20 surgery to revise that again.

21 Q. Okay. Great. Thank you very much.

22 Doctor, let's begin at the beginning with
23 Exhibit 2. And the first page of Exhibit 2, if
24 you'll look in the bottom right-hand corner, lawyers
25 call these Bates numbers. It would be CRI 5002.

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1 Okay. Do you have that in front of you?

2 A. Yes, I do.

3 Q. All right. Doctor, is that your first --
4 or your intake chart note, first contact with
5 Mr. Crisco?

6 A. Yes, it is.

7 Q. All right.

8 THE COURT: Mr. Kapolchok, in connection
9 with smoothing this over, let's find out if we can
10 just admit Exhibit 2 as a binder of documents.

11 MR. POMEROY: No objection, Your Honor.

12 THE COURT: Exhibit 2 is admitted.

13 (Exhibit 2 admitted into evidence.)

14 MR. KAPOLCHOK: Thank you, Your Honor,
15 very much.

16 May I also offer the excerpts that are
17 bundled as Exhibit 7?

18 THE COURT: Any objection to 7?

19 MR. POMEROY: No, Your Honor.

20 THE COURT: Exhibit 7 is also admitted.

21 MR. KAPOLCHOK: Great. Thanks.

22 (Exhibit 7 admitted into evidence.)

23 BY MR. KAPOLCHOK:

24 Q. All right. Dr. Hall, tell us again why
25 Johnnie came to see you.

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1 A. Because of persistent knee pain after his
2 knee arthroplasty.

3 Q. Were you provided, in addition to having
4 Mr. Crisco there, information from his prior
5 treatment from the VA?

6 A. Yes. Apparently I did have reports from
7 the VA.

8 Q. Your note here says that you had x-rays
9 and laboratory studies provided to you?

10 A. Correct.

11 Q. And it states here there was no evidence
12 of loosening or infection.

13 Was that based on a review of the VA
14 materials?

15 A. Yes.

16 Q. Your report also mentions the possibility
17 of RSD; is that correct?

18 A. That's correct.

19 Q. What is RSD?

20 A. It's a condition called reflex sympathetic
21 dystrophy, also known as complex regional pain
22 syndrome these days. It's a problem with the
23 nervous system where there's a cross-connection
24 between the sympathetic nervous system and pain
25 system that gets in a feedback loop that doesn't

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1 shut down.

2 THE COURT: Doctor, that was a little fast
3 for me. What does RSD stand for?4 THE WITNESS: Reflex sympathetic
5 dystrophy.

6 THE COURT: Thank you. Go ahead.

7 BY MR. KAPOLCHOK:

8 Q. And you mentioned, Doctor, that reflex
9 sympathetic dystrophy has also been reclassified now
10 and has a new moniker; what is that new name?

11 A. Complex regional pain syndrome.

12 Q. Same thing?

13 A. Same thing.

14 Q. Doctor, you really talk fast. And I don't
15 mean to offend you, but I'll probably interrupt you
16 to slow you down. I take it you've always done
17 that.18 A. Well, this is a little talk that I've
19 given many times, so I guess I give it too fast.20 Q. Okay. Is reflex sympathetic dystrophy,
21 that nerve disorder that you described, is that
22 something that you encounter in your practice as an
23 orthopedic surgeon?

24 A. Yes.

25 Q. Was that -- when Mr. Crisco presented

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1 himself to you in his VA records, was that within
2 the -- what I call the differential diagnosis that
3 you were wrestling with at that time?

4 A. Yes.

5 Q. In fact, do you remember whether or not it
6 had actually been mentioned by the -- well, one of
7 the VA physicians? Can you tell from your chart
8 note? I know this is a long time ago.

9 A. My note indicates, at least from the VA,
10 that the possibility of RSD had been mentioned.

11 Q. All right. You apparently did a physical
12 examination of Mr. Crisco on that first visit; is
13 that right?

14 A. That's correct.

15 Q. And am I fair to conclude that your effort
16 or your focus was to find out what was causing this
17 painful knee?

18 A. Correct.

19 Q. Did you find any problems with stability?

20 A. No.

21 Q. How do you test for that?

22 A. Well, the patient basically is lying on
23 their back and you hold onto their tibia or shin and
24 move from side to side with their knee in flexion --
25 or full extension and various degrees of flexion to

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1 see if it opens up or has laxity.

2 Q. It appears, Doctor, and correct me if I'm
3 wrong, that under x-rays you reviewed x-rays from
4 the VA.

5 A. Correct.

6 Q. Is that right?

7 A. Yes.

8 Q. And you state, right at the bottom of
9 Exhibit 5002, some mild notching of the anterior
10 cortex of the femur.

11 What is that?

12 A. Can I use this model?

13 Q. Certainly.

14 A. When you're making the cut on the femur
15 bone, this cut is considered the anterior cut. If
16 it's a little bit too deep, it will get into the
17 cortex of the femur bone, which is what's called
18 notching. But also one part of the femur, it will
19 stick up farther than the other one, side of the
20 other. So it's not always considered significant to
21 have notching if it's pretty mild.

22 THE COURT: Is the notching a natural
23 occurrence or something that's a function of prior
24 procedures?

25 THE WITNESS: It's from the bone cut made

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1 to implant the metal component.

2 BY MR. KAPOLCHOK:

3 Q. Doctor, while you have that -- I asked you
4 to bring an example that you would use with a
5 patient to demonstrate what a knee replacement is.

6 Would you point to and describe the
7 femoral component, and then also the tibial
8 component, while -- since you already used that.

9 A. Well, the femoral component is this cap
10 that covers the entire end of the femur bone. And
11 then on the tibial side there's a metal base plate.
12 After that it's cut flush and that's placed on
13 there. And then there is a plastic liner that snaps
14 into that base plate. So when the motion occurs
15 it's between the metal of the femur and the plastic
16 of the tibial base plate.

17 THE COURT: Is this model the make of --

18 THE WITNESS: No.

19 THE COURT: -- prosthesis that Mr. Crisco
20 had?

21 THE WITNESS: No. It's the not same
22 manufacturer. It's a little different in the other
23 regard in that it -- this particular model takes
24 away both of those ligaments in the middle part of
25 the knee, those cruciate ligaments that we talked

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1 about earlier. The knee had --

2 THE COURT: Is this a model of the one
3 that you placed in Mr. Crisco?

4 THE WITNESS: Not specifically. It's from
5 the same manufacturer, but not...

6 BY MR. KAPOLCHOK:

7 Q. Is it a Zimmer?

8 A. Yes.

9 Q. Is that model a Zimmer?

10 A. Yes.

11 Q. And it's a little different than the one
12 that you replaced?

13 A. Yes.

14 Q. In what way? Or, I should ask, is it
15 significantly different?

16 A. The main difference has to do with this is
17 a primary or first time around knee, and the
18 revision knee has extra components for -- to engage
19 more of the bone, basically what are called stems
20 that go up into the femoral canal and down into the
21 tibial canal, as well as a little bit different
22 tibial liner.

23 THE COURT: Do all of them have that same
24 kind of base plate on the tibia?

25 THE WITNESS: Yes.

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1 BY MR. KAPOLCHOK:

2 Q. To return to your medical chart note of
3 October 5th, 2001, Doctor. You state that there's
4 no evidence of fracture, although alignment of the
5 femoral component appears good.

6 So that was one of your findings from,
7 again, the x-rays?

8 A. Yes.

9 Q. And you go on to state: On the lateral
10 view there is the suggestion that the tibial plateau
11 is placed with an anterior slope rather than a
12 posterior slope.

13 Now, have you already explained to us why
14 the posterior slope is used?

15 A. It would be the same reason in the
16 prosthetic knee as it occurs naturally in nature in
17 the human knee, because of the range of motion
18 requirements.

19 Q. And by reviewing x-rays from the Veterans
20 Administration, you were able to see that the slope
21 was going in the other direction; is that fair?

22 A. Yes. There's that suggestion on that
23 x-ray.

24 Q. Would it be helpful at this point, Doctor,
25 to review an x-ray to show to us what you're talking

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1 about?

2 A. Yes.

3 Q. Doctor, I'm going to hand you a light
4 table and an x-ray. And, for the record, the x-rays
5 have been catalogued and identified as Exhibit 6,
6 page 2 of Exhibit 6.

7 And the one I'm putting before you is --
8 could you read the number on that one? Is it 3-A?

9 A. It says Exhibit 1.

10 Q. Well, that's from the deposition.

11 A. 3-A is correct.

12 Q. 3-A? Okay.

13 THE COURT: Is there an objection to
14 Exhibit 6, part 3-A?

15 MR. POMEROY: I don't think so.

16 THE COURT: Come take a look.

17 MR. POMEROY: No, Your Honor.

18 THE COURT: 3-A of Exhibit 6 is admitted.

19 (Exhibit 3-A admitted into evidence.)

20 MR. KAPOLCHOK: Thank you.

21 BY MR. KAPOLCHOK:

22 Q. Would you demonstrate to the court --

23 MR. POMEROY: Excuse me for a minute. Is
24 there a way that that could be tilted so it's -- we
25 can see what Dr. Hall is demonstrating?

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1 THE COURT: I'd rather if you came over
2 here, so that that is where it is and I can see it
3 head on.

4 You may get a better angle if you get over
5 behind me here.

6 BY MR. KAPOLCHOK:

7 Q. Dr. Hall, I'm going to begin by kind of
8 asking you a compound question, and then I'm going
9 to move so you can talk. And I don't have to be
10 shackled to this microphone.

11 The question is this. Please describe the
12 type of view that this x-ray shows of Mr. Crisco's
13 knee, and please explain to us how that film
14 demonstrates the slope of the tibia tray.

15 A. Well, this is a lateral view of the knee.
16 And the slope, as I mentioned earlier, is the
17 reference is a -- you take the long axis of the
18 tibia or the -- or use the anterior cortex, which is
19 this front part of the tibia, and then draw
20 perpendicular to that. And then that's your
21 reference line.

22 And then you measure -- you're like doing
23 this one, somebody is drawing the line here on the
24 end, the top part of the tibia component, or you can
25 use the very bottom of the base plate. And then the

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1 angle between those two is the slope. And if this
2 back part is higher than your reference line, then
3 it's an anterior slope.

4 THE COURT: How do you decide where to put
5 the reference line?

6 THE WITNESS: This is the -- the key line
7 is the long axis of the tibia.

8 THE COURT: Is it 90 degrees to the long
9 axis?

10 THE WITNESS: Correct.

11 THE COURT: The baseline is 90 degrees
12 from the long axis?

13 THE WITNESS: Correct.

14 And then you measure the angle that the
15 tibia base plate makes with that reference angle --
16 or excuse me, reference line.

17 And if this is higher than the
18 reference -- if the back part is higher than the
19 reference line, then it's an anterior slope. If the
20 back part of the base plate is lower than the
21 reference line, then it's a posterior slope, just by
22 convention.

23 BY MR. KAPOLCHOK:

24 Q. Doctor, page 2 of your initial chart note,
25 you discuss laboratory studies. And what did you

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1 look at and what did you conclude from that --

2 A. Well, the two tests --

3 Q. What generally did you look at?

4 A. The two tests I looked at were the
5 sedimentation rate and the white count, and those
6 were normal.

7 Q. All right.

8 A. And those would tend to rule against
9 infection as a cause.

10 Q. I take it that an infected knee could be a
11 painful knee?

12 A. Yes. Right.

13 Q. And upon examination of Mister -- to go
14 back a little bit -- examination of Mr. Crisco's
15 knee, did it exhibit any indications of infection?

16 A. I didn't notice any significant swelling
17 about the knee or warmth, which are common signs
18 with infection.

19 Q. And you just told us the lab results were
20 negative on infection?

21 A. Correct.

22 Q. Okay. And I don't know if I've asked you
23 this, but -- and it's probably obvious, but an
24 infected knee is a painful knee?

25 A. Yes.

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1 Q. Okay. What was your conclusion and what
2 course of action did you next take?

3 A. Well, at the end of the first visit I
4 didn't have a specific diagnosis yet. I felt we
5 needed further testing. And so we referred him for
6 a test called a bone scan to help try to narrow down
7 the possibilities.

8 Q. All right. And --

9 THE COURT: What are looking for in the
10 bone scan?

11 THE WITNESS: One of the possibilities, or
12 kind of the diagnostic possibilities were infection
13 or this RSD or loosening. Say, with RSD, generally
14 on a bone scan the entire knee will show activity,
15 or what's commonly said is light up. If it's
16 infection, it can be -- either the whole knee can
17 light up or just parts of it. If it's loosening,
18 oftentimes you'll see activity just around the metal
19 parts.

20 BY MR. KAPOLCHOK:

21 Q. Let me -- what is a bone scan, Doctor?
22 Tell us, how do they actually perform it?

23 A. Well, the patient has an injection or IV
24 of a -- basically a radioactive tracer that attaches
25 itself to white blood cells, which is what the body

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1 uses to fight infection, also uses for inflammation.

2 So after the injection, you come back
3 several hours later, and then they have a -- sort of
4 a camera or device that can see the radiation from
5 the tracer, and it can tell you where they're
6 accumulating or where there's an uptake of the
7 tracer.

8 Q. Is this type of bone scan also referred to
9 as a, all capital letters, RNBI; is that the same
10 type of bone scan, or if you --

11 A. I'm not familiar with that --

12 Q. You're not familiar?

13 A. -- acronym.

14 Okay. Is the bone scan a diagnostic tool
15 frequently used to see if there is this RSD disease
16 going on?

17 A. Yes.

18 Q. Is it in fact, Doctor, the best diagnostic
19 tool to determine whether a person has RSD, to your
20 knowledge?

21 A. Well, RSD is a difficult thing to
22 diagnose. Short of imaging tests, a bone scan would
23 be considered the best test to try to make that
24 diagnosis.

25 Q. In addition to the bone scan, Doctor, did

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1 you order any other diagnostic tests?

2 A. We probably did order another lateral view
3 of the patient's knee as he was trying to extend the
4 knee himself.

5 Q. Okay. So another x-ray?

6 A. Correct.

7 Q. Okay. All right, Doctor. Could you turn
8 to your next visit with Mr. Crisco, and we'll speed
9 this up a little and be able to move more
10 efficiently. And that's document 5004.

11 Apparently Mr. Crisco was back on the 18th
12 of October; is that right?

13 A. That's correct.

14 Q. But you did not have the films at that
15 point; is that correct?

16 A. That's correct.

17 Q. All right. The next visit, Doctor, 5005.

18 That's October 23rd; is that right?

19 A. That's correct.

20 Q. All right. Do you review your own bone
21 scans? I mean, bone scans you order?

22 A. Yes.

23 Q. All right. Did you in this case?

24 A. Yes.

25 Q. All right. You state, on the first page

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1 of this chart note, you had reviewed it and there
2 was increased uptake around the component in the
3 tibia, as well as intense uptake within the patella.

4 Could you explain that to us in more
5 layman like terms.

6 A. Okay. Well, the --

7 Q. Go ahead.

8 A. The bone scan had shown that there was
9 accumulation of white blood cells essentially in
10 those areas. That would be consistent with some
11 form of inflammation.

12 Q. And what could cause that inflammation?

13 A. It could be from infection. It could be
14 from loosening. It could be from overload or stress
15 or -- on the components, or on the patella itself.

16 Q. So the possibilities are, where this
17 inflammation that the bone scan shows, are
18 loosening; is that one?

19 A. Correct.

20 Q. Infection is one?

21 A. Correct.

22 Q. Or stress caused by what?

23 A. If the components are malaligned it can
24 put excess stress on different parts of the knee
25 more than the underlying bone can withstand without

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1 reacting.

2 Q. Okay. Thank you.

3 THE COURT: I take it the test tells you
4 that something is going on but doesn't make it
5 possible for you to differentiate between infection,
6 stress, RSD?

7 THE WITNESS: Well, RSD you could rule out
8 on the basis of the bone scan, because it was -- but
9 the other three, as a stand-alone test, it could not
10 do that.

11 BY MR. KAPOLCHOK:

12 Q. Now, a few minutes ago, Dr. Hall, you
13 mentioned that you had another x-ray of the knee in
14 full extension; is that correct? I'm looking at
15 5005 under x-ray.

16 A. Yes.

17 Q. Okay. And again, do you review your own
18 films?

19 A. Yes.

20 Q. And what was your conclusion from that
21 x-ray?

22 A. It showed that the plastic liner did not
23 appear to be touching the femur, that the contact
24 was in the posterior or back part of the plastic
25 liner. And that the knee also is not -- was not

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1 achieving full extension.

2 Q. You state, "It appears to be levering
3 out." Could You explain that to us?

4 A. Well, as the knee comes around, normally
5 the plastic part will conform to the femur part.
6 But if it's levering it's coming around like this,
7 where only part of it is touching.

8 THE COURT: Try that again.

9 THE WITNESS: Sorry.

10 THE COURT: I didn't really get the
11 difference.

12 THE WITNESS: Normally you would see
13 something like this, they would come around from
14 flexion to extension, where there's contact between
15 the plastic liner and the femur along the whole
16 surface of the plastic.

17 THE COURT: Okay.

18 THE WITNESS: But with levering it will be
19 just the back part as it comes around when you're
20 doing that. And you'll have that gap.

21 THE COURT: You have this gap here.

22 THE WITNESS: And also there between the
23 plastic and the --

24 THE COURT: Okay.

25 ///

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1 BY MR. KAPOLCHOK:

2 Q. Could you summarize your conclusions for
3 us, Doctor, after you reviewed the new x-ray and
4 after you reviewed the bone scan that you would
5 order?

6 And you're free to either summarize or
7 read your conclusions, or whatever you'd like to do.

8 A. My conclusion was I felt his pain was
9 coming from the position of his tibia base plate.
10 That in combination with the fact that it was a
11 posterior cruciate retaining knee, which meant that
12 there is one other degree of restraint of the knee
13 that sort of accentuated the problem.

14 THE COURT: I missed that one.

15 THE WITNESS: One of the ligaments in the
16 middle part of the knee was one called the posterior
17 cruciate ligament. With the type of knee that he
18 had in place, that ligament was still there. And
19 that tends to tether or make it tighter as it comes
20 around.

21 BY MR. KAPOLCHOK:

22 Q. Now, if you've got the anterior slope as
23 opposed to the posterior slope situation that you've
24 discussed, and you have that posterior cruciate
25 retaining ligament, does that make the mechanical

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1 problem worse?

2 A. The presence of the posterior cruciate
3 ligament?

4 Q. That's what I'm trying to ask.

5 A. Theoretically, yes.

6 Q. Okay.

7 THE COURT: Doctor, is the -- I think I
8 got this in the right order. Is the anterior rather
9 than the posterior tilt approximately the same, or
10 appears to be approximately the same with your new
11 x-rays compared to the original one you were looking
12 at?

13 THE WITNESS: I didn't specify degrees,
14 but just that it was anterior sloped in both x-rays,
15 that I saw.

16 THE COURT: You didn't attempt to measure
17 it the second time?

18 THE WITNESS: I don't see a notation of
19 that.

20 BY MR. KAPOLCHOK:

21 Q. We'll get to some of your other records,
22 Doctor, that you actually put that in.

23 What was the plan, Doctor, after the
24 review of the bone scan and the new x-ray?

25 A. We discussed the possibility of revision

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1 of the knee and he elected to do that. So we
2 scheduled to have surgery.

3 THE COURT: Before we move on, let me make
4 sure I understand one thing.

5 The bone scan suggested to you that there
6 could be a probable infection even before the new
7 revision was done?

8 THE WITNESS: In concert with the physical
9 exam and the lab findings, I didn't think he had an
10 infection.

11 THE COURT: All right. Thank you, sir.

12 BY MR. KAPOLCHOK:

13 Q. One follow-up on that, Doctor. You would
14 not recommend a revision of the knee if you believed
15 or hadn't ruled out an infected knee, would you?

16 A. Not a single stage revision, no.

17 Q. All right. Related to that concern of
18 infection and prior to the surgery, did you refer
19 Mr. Crisco to Dr. Makim for a preoperative work
20 up?

21 A. Oh, Makin, yes.

22 Q. Oh, is it Makin?

23 A. Yes.

24 Q. Okay. What specialty is Dr. Makin in?

25 A. Internal medicine.

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1 Q. Okay. And could you turn to Exhibit 7,
2 which is the tab on the back, Doctor. And could you
3 find Exhibit 12840.

4 A. I have that.

5 Q. All right. What is that medical chart,
6 12840?

7 A. It's a preoperative medical clearance for
8 surgery by Dr. Makin.

9 Q. Okay. And what laboratory data did
10 Doctor -- and correct me if I keep saying Makim.
11 There is a Dr. Makim in town, isn't there?

12 A. Not that I'm aware of, but there probably
13 is.

14 Q. Okay. It's Dr. Makin. All right. The
15 internal medicine doctor, Dr. Makin, what laboratory
16 data did he utilize to clear Mr. Crisco for surgery?
17 And I'm looking at 12841.

18 A. He has the CBC, or complete blood count,
19 essentially normal. Urinalysis, negative.
20 Metabolic panel, some very mild elevation of one of
21 the liver enzymes. And the sedimentation rate was
22 normal.

23 Q. Okay. Now, the CBC is white blood cell?

24 A. It's included in there, yes.

25 Q. Lot more than that, just the white blood

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1 cell count?

2 A. Yeah, there's quite a bit more than that,
3 yeah.

4 Q. The sed rate, is that related to a lab
5 test to determine whether there's infection?

6 A. It's one of them, yes.

7 Q. What about -- a urinalysis doesn't
8 determine infection, does it?

9 A. Bladder infection, basically.

10 Q. Okay. And when Dr. Makin refers to a
11 comprehensive metabolic panel, what does that
12 involve?

13 A. It's like electrolytes and kidney function
14 and liver function tests.

15 Q. Would that address the question of whether
16 Mr. Crisco's knee was infected at all?

17 A. Not on a metabolic panel.

18 Q. Okay. On page 12842, Dr. Makin clears
19 Mr. Crisco for surgery pending an electrocardiogram;
20 is that right?

21 A. That's correct.

22 Q. Now, were you comfortable then that based
23 on these lab tests that Mr. Crisco did not have an
24 infection going into the surgery?

25 A. Correct.

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1 Q. And to jump ahead, Doctor, and I'll go
2 back to this. During the revision surgery, cult --
3 not cultures, but specimens were taken of
4 Mr. Crisco's knee?

5 A. Yes, they were.

6 Q. And they were -- what do you do with
7 those? Do you have them cultured for infection?

8 A. Yes. You take both swabs and tissue and
9 send them to the lab, and then they send them to
10 micro to try to grow bacteria out of them,
11 basically, process them to. Culture them, I guess
12 is the process.

13 Q. Right. Okay. So swabs meaning fluids --

14 A. Yes.

15 Q. -- that are in the knees?

16 A. Yes.

17 Q. Like blood and whatever else is in
18 there?

19 A. Just the fluid that's inside the knee when
20 you first open it up.

21 Q. Right. And then actual tissue samples?

22 A. Yes.

23 Q. And so those were taken from Mr. Crisco's
24 knee when you went in to replace the components,
25 right?

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1 A. Correct.

2 Q. And what did they show?

3 A. There was no bacteria grow-outs and no
4 evidence of infection.5 Q. Okay. No bacteria or no evidence of
6 infection; all right.7 Is that done just as kind of a
8 confirmatory task, or is there another reason to do
9 that?10 A. Well, confirmatory also has -- if you were
11 to miss an infection like that, then it would -- you
12 potentially could salvage it still at that stage, as
13 opposed to letting it go for several weeks before it
14 became diagnosed.15 Q. So it would tip you off to take some sort
16 of immediate prophylactic action?

17 A. Correct.

18 Q. Okay. Let's go to your operative note,
19 Doctor. And maybe I can pick up the pace here a
20 little bit. Exhibit 7, 12844 and 45.

21 Is that your operative note, Doctor?

22 A. Yes, it is.

23 Q. Okay. And when was the surgery, the
24 revision surgery done? What date?

25 Does it look -- at the bottom there --

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1 A. Oh.

2 Q. -- does it look like it was 11/7 of '01?

3 A. Yeah, it's cut off on this. But it says
4 print 11/8.

5 Q. Okay.

6 A. Oh, dictated 11/7, so it would have been
7 11/7. Sorry.8 Q. All right. In the middle of your note,
9 Doctor, it refers to specimens. Is that what I just
10 asked you about, the cultures taken for gram stains
11 and aerobic and anaerobic cultures?

12 A. Correct.

13 Q. Is that your standard practice in doing
14 knee surgery -- or knee replacement surgery, whether
15 it's the first knee or replacing the knee?16 A. Standard practice for revisions, not for
17 primary.18 Q. Okay. I skipped over it and I guess I
19 shouldn't have.20 Prior to the surgery, you had a meeting
21 with Mr. Crisco and discussed the risks of the
22 surgery; is that right?

23 A. That's correct.

24 Q. And was one of the risks infection?

25 A. Yes.

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1 Q. What is the risk of infection based on
2 evidence-based medicine and the studies that have
3 been done of a primary knee replacement, in terms of
4 percentages or however they express them?

5 A. It's usually, for primary knee
6 replacements, depending upon other factors,
7 somewhere between 1.5 to 2 percent, or maybe a
8 little bit higher if they have other factors.

9 Q. All right. First time knee?

10 A. First time.

11 Q. Right. Now, for a revision, is the risk
12 of infection greater?

13 A. Yes.

14 Q. Do we know, based on studies, how much
15 greater?

16 A. The other study that I read is somewhere
17 between 3 to 5 percent infection rate on
18 revisions.

19 Q. So twice as much or maybe a little more
20 than twice as much?

21 A. In that neighborhood, yeah.

22 Q. Right. Do they know why, or do you have
23 an opinion as to why the infection rate is so much
24 greater on a revision?

25 A. I think the presumed -- some of the

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1 presumed factors are you're operating through tissue
2 that's already been operated through once, so it
3 doesn't have the same blood supply, same capability
4 to heal and ward off infection. And the surgeries
5 are generally longer. Infection rates are tied to
6 length of surgery. More exposure is required, so
7 there is more -- there is a larger wound opened for
8 a longer period.

9 Q. Okay. Returning to 12844, Dr. Hall, your
10 surgical note -- your operative note. Would you
11 read what it says under "Indications"?

12 A. It says, "This patient is a 63-year-old
13 male, about 11 months status post a left total knee
14 arthroplasty. He has had significant pain ever
15 since the arthroplasty was performed. X-ray showed
16 the tibia plate to be put in 70 degrees of anterior
17 slope rather than 70 degrees of posterior slope.
18 Lateral x-ray confirms levering off the tibial tray
19 anteriorly. Bone scan shows increased activity
20 around the tibial tray and also the patella. After
21 discussion of risk and benefits, the patient elected
22 to have the arthroplasty revised."

23 Q. So based on your x-ray, you were able
24 to -- well, in fact the court, I think, asked you
25 whether or not you measured or estimated the

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1 deviation in slope.

2 At the time you conducted the revision
3 surgery, your analysis was 7 degrees anterior slope;
4 is that correct?

5 A. That's correct.

6 THE COURT: Now, is that new information
7 from the actual surgery, or are we still talking
8 about the x-rays?

9 THE WITNESS: That would have been from
10 the preoperative x-rays.

11 THE COURT: Okay.

12 BY MR. KAPOLCHOK:

13 Q. Looking at your actual procedural note,
14 Doctor, on the next page, 12845. Without reading it
15 or going through it step-by-step, I note that you
16 refer to trials during your procedure; is that
17 right?

18 A. That's correct.

19 Q. All right. And is a trial another name
20 for trying it, see if it's right?

21 A. Correct. Before you implant the final
22 components.

23 Q. Now, the trials are done a number of
24 times, aren't they?

25 A. Yes. Usually.

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1 Q. In different stages?

2 A. Yes.

3 Q. Is that fair?

4 A. Yes.

5 Q. Take us or -- take us through the trials
6 that you perform and explain to the court a little
7 bit about the fact that these manufacturers give you
8 trial components that you try to fit, and then I
9 guess throw away, and then put the final ones in.
10 Could you just take us through that?

11 A. Well, after you --

12 Q. I know I simplified it too much, but...

13 A. After removing the original components,
14 then you have to re-cut the bone to fit the new
15 components. Then they have trial components, which
16 are metal as well, but they're not glued or cemented
17 in place; they're just what we call pressed or
18 basically pounded into place.19 And then you could use -- then they have
20 plastic trial liners too that also go into the base
21 plate. But again, they just lay in there, they're
22 not securely fastened. They basically pop in and
23 out.24 And then with those in place you see how
25 much range of motion you have, and then check the

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1 stability both in various degrees of flexion and
2 extension to see if the collateral ligaments are
3 stable.

4 The type of revision components we were
5 using substitute for the collateral ligament. So in
6 his case we wouldn't have expected to find much
7 collateral or laxity. So we were checking for range
8 of motion, and in a primary situation you're
9 checking for stability.

10 Q. Now, the patient is in what kind of
11 position when you're doing the surgery?

12 A. They're on their back.

13 Q. And do you actually then pick up the leg
14 and move the knee to like a 90 degree bend or
15 something to that nature?

16 A. Basically, put their knee -- hold their
17 knee like this, or their leg like this, and then put
18 them through a range of motion. And then try side
19 to side to check their ligaments for stability.

20 Q. Do you have an opinion, Doctor, whether or
21 not in performing that trial -- it's like a trial
22 run, right?

23 A. Correct.

24 Q. -- that an orthopedic surgeon would be
25 able to see that, like in this case, you had a 7 --

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1 what you determined to be a 7 degree anterior slope
2 as opposed to a 7 degree posterior slope; was that
3 something an orthopedic surgeon should pick up if he
4 tried the knee?

5 A. It should be apparent during the trial.
6 As the knee goes from flexion into extension, the
7 force from the back tends to open up the front. You
8 see either the tibial base plate coming off the bone
9 or else the liner coming off the tibial base
10 plate.

11 THE COURT: If it's tilt the wrong way?

12 THE WITNESS: Yes.

13 BY MR. KAPOLCHOK:

14 Q. Are you comfortable, Doctor, in telling us
15 then, that in performing this revision, it was done
16 to correct this malposition?

17 A. Based on the evidence I have, those are
18 the diagnosis and that's why we offered the surgery,
19 yes.

20 Q. Was it also your opinion, then and now,
21 that Mr. Crisco did not have an infected knee at the
22 time you did the revision?

23 A. That's correct.

24 Q. And is it also your opinion that
25 Mr. Crisco did not exhibit reflex sympathy dystrophy

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1 at the time you replaced his knee components?

2 A. That's correct.

3 Q. And is it also, Doctor, your opinion that
4 the malposition of 7 degree anterior slope as
5 opposed to 7 degree posterior slope, is beneath the
6 standard of care?

7 A. Yes.

8 Q. Now, the knee that you installed in
9 Mr. Crisco was -- you identify on this exhibit as
10 the Zimmer?

11 A. Correct.

12 Q. All right. Did you install it with a
13 posterior slope?

14 A. Yes.

15 Q. Okay. Is that built into the component,
16 or is that done by re-cutting the tibial tray --
17 excuse me, the tibia?

18 A. It's done by cutting the tibia. And I'm
19 trying to remember. Zimmer has gone through
20 different iterations. At one point they had a --
21 the base plate was perpendicular to the long axis,
22 and then the slope was built into the liner.

23 Now they're all -- it's -- the cut is 7
24 degrees, and so the liner is symmetric. And at this
25 point in time I can't recall which way it was.

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1 Q. To get the proper slope, does the
2 manufacturer provide you, Doctor, any tools or
3 equipment to help you get the right angle?

4 A. Yes.

5 Q. And describe for us what you use?

6 A. Well, for a primary or first time knee, we
7 use a -- it's called an extramedullary, which is
8 a -- basically a rod that clamps onto the leg, and
9 you make sure that it's parallel to the front part
10 of the tibia, and then that's your reference line.
11 And then it has a jig that attaches to it that has a
12 slot in it that you make your cut through.

13 Q. Is the jig also called a cutting block?

14 A. Yes.

15 Q. All right. Okay. And so this is a
16 hardware that you attach to the outside of the
17 leg?

18 A. Yes.

19 Q. Is there a different way to help you get
20 the proper angle cut to the tibia?

21 A. The alternative way is to put a metal rod
22 down the shaft of the tibia far enough down to
23 engage the long axis, and then that becomes your
24 reference point. And then the jig is attached to
25 that, and you can use that for primaries or

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1 revisions.

2 Q. How -- is the rod just pushed into the
3 bone, or is it drilled, or how is that done?

4 A. You have to make a pilot hole for it first
5 with some sort of reamer, usually by hand.

6 Q. What is your preference, or which type do
7 you use?

8 A. Well, for primaries I use the external
9 alignment to guide the rod that clamps on, and then
10 for revisions usually intramedullary.

11 Q. Okay.

12 A. Which I think all systems require that for
13 revision.

14 Q. So in this case you had to use the in --
15 repeat that for me.

16 A. Intramedullary.

17 Q. Intramedullary. Is that what you had to
18 use in this case?

19 A. Yes. For the revision, yeah.

20 Q. How did Mr. Crisco's revised knee go at
21 first?

22 A. Well, initially he did very well and
23 actually left the hospital fairly quickly for a
24 revision knee. But then shortly after being
25 discharged he came back in with swelling in his knee

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1 and it turned out to be infection.

2 Q. You typically have an x-ray done right
3 after the knee implant is done, in this case a
4 revision, to check on alignment and whatnot?

5 A. Yes.

6 Q. And do you recall what the results were in
7 this case?

8 A. I don't have a notation here, but I can --
9 I normally take the x-ray in the recovery room.
10 Unless there was a problem during the surgery, then
11 I'll take it in the operating room. So it's
12 something I look at after the surgery, but I don't
13 seem to have a note here that indicates.

14 Q. Okay. Let me -- let me ask you to look at
15 Exhibit 7, Doctor. Reference No. 12846.

16 Do you have that?

17 A. Yes.

18 Q. That indicates Johnnie was discharged the
19 11th of November; is that right?

20 A. That's correct.

21 Q. Okay. There's a reference to the
22 intraoperative cultures. Are those -- are those
23 repeated while he's in the hospital, or are those
24 just done during the replacement surgery?

25 A. They're done during the surgery, but they

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1 take several days to have a final result.

2 Q. And you state, "The patient progressed
3 rapidly with physical therapy and by the time of
4 discharge was tolerating" -- what's the "OP pain
5 medications"?

6 A. Oral pain medications rather than
7 intravenous.

8 Q. Okay. "Regular diet. His wound looked
9 well and he was ambulating independently." Meaning
10 what, he was walking without assistance?

11 A. He was able to get in and out of bed by
12 himself, go up and down the stairs by himself, using
13 either a walker or crutches.

14 Q. Okay. Within four or five days? Four
15 days?

16 A. Yes.

17 Q. Okay. You go on to say, "The patient may
18 weight bear as tolerated. And then start physical
19 therapy," right?

20 A. Correct.

21 Q. So, fair to say, Doctor, so far, so
22 good?

23 A. Yes.

24 Q. Were you pleased with the result?

25 A. Like I said, to go home four days after a

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1 revision surgery is very quick, it's pretty
2 remarkable.

3 MR. KAPOLCHOK: Your Honor, would it be
4 acceptable at times for me to excuse Mr. Crisco?
5 He's taking some medications that kind of --

6 THE COURT: Not a problem. Whatever he
7 needs to --

8 MR. KAPOLCHOK: -- result in kind of a,
9 you know, a need to go to the restroom.

10 THE COURT: Not a problem.

11 MR. KAPOLCHOK: All right. Thank you very
12 much.

13 BY MR. KAPOLCHOK:

14 Q. Doctor, could you look next at Exhibit 7,
15 12847.

16 Do you have that?

17 A. Yes.

18 Q. What's going on now? It's about a week
19 later, not even that much later. What's happening
20 with Johnnie Crisco?

21 A. He's being readmitted to the hospital on
22 the 15th of November, because he had been his doing
23 physical therapy, felt a pop in his knee and had
24 increased pain and swelling.

25 Q. Okay.

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1 A. So he presented to the emergency room.

2 Q. What do the labs tell us, Dr. Hall?

3 A. Well, he's got a white count of 22,000,
4 which post-surgery for several weeks usually is --
5 can be fairly normal, because the stress of the
6 surgery can elevate your white count, but it can
7 also be elevated from an infection.

8 And then we took some fluid off his knee
9 for gram staining, which is basically just an
10 examination for bacteria and then a culture where
11 they try to physically grow them.

12 Q. Okay. Let me ask you to turn to the next
13 in line exhibit, Exhibit 7, 12850.

14 Is that the -- I notice the physician is
15 John E. Hall. That's a different doctor, emergency
16 room doctor?

17 A. That's correct.

18 Q. All right. And Doctor -- that Dr. Hall
19 indicated that Mr. Crisco had a low grade fever; do
20 you see that? Review of systems.

21 A. Yes.

22 Q. And in addition to the CBC rate of 22,000,
23 there's some indicate -- or some numbers attached to
24 a hemoglobin and a hematocrit rate, 13.6 and 31.2.

25 What significance is that, if you know?

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1 A. Well, hemoglobin is the oxygen carrying
2 part of the blood, and basically that's checking for
3 anemia. After a large surgery oftentimes the
4 hemoglobin will go down significantly. 13.6
5 actually is probably within the normal range. And
6 for somebody who just had a revision surgery, or a
7 large surgery, that would be a pretty good
8 hemoglobin.

9 Q. Okay. Now, Dr. Hall, do you remember that
10 you called in right away to see him?

11 A. Yes.

12 Q. Okay. And what was your concern?

13 A. Well, one of the concerns was infection.

14 Q. Okay. And as a result of that, what did
15 you do, in terms of consulting, or what did you
16 do?

17 A. Well, we got the -- you know, aspirated
18 the knee or took fluid off and sent it off to the
19 laboratory and it did show bacteria. So I got an
20 infectious disease consultation from Dr. Bundtzen.

21 Q. Okay. Robert Bundtzen?

22 A. Correct.

23 Q. And his specialty is infectious disease?

24 A. Correct.

25 Q. In terms of treatment for the infection

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1 then, did Dr. Bundtzen essentially kind of take over
2 that aspect of the treatment?

3 A. More the antibiotic selection and the
4 route, whether it was going to be oral or
5 intravenous and for what length.

6 Q. Okay. Now, was there some surgical
7 intervention that immediately conjoined or joined up
8 with Dr. Bundtzen's antibiotic treatment?

9 A. Once we had evidence of infection on the
10 labs and he was -- we did a surgery to try to
11 salvage his knee by washing it out and exchanging
12 the plastic liner for a new plastic liner.

13 Q. Okay. Looking at Exhibit 7, 12852, which
14 looks like a note, chart note from Dr. Bundtzen,
15 isn't it?

16 A. It is.

17 THE COURT: I'm sorry, that was 58?

18 MR. KAPOLCHOK: 12852, judge.

19 THE COURT: 52.

20 BY MR. KAPOLCHOK:

21 Q. And Dr. Bundtzen writes, "The patient says
22 that his knee felt great for the first day or two
23 after he went home, after the procedure, but then an
24 aspiration revealed an infection."

25 That's what you were talking about, the

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1 cultures?

2 A. Yes.

3 Q. And it says, "Today he had an irrigation
4 and debridement in polyethylene line exchange."

5 Is that something you did, Doctor?

6 A. Yes.

7 Q. It says, "Cultures are growing staph
8 aureus."9 I guess it's kind of common knowledge to
10 hear about staph infections. Is this a particular
11 type of staph infection, or what is staph aureus?12 A. Staphylococcus is the type of bacteria,
13 and then there is subgroups within that, and staph
14 aureus is one of them. And it's one of the more
15 common infecting organisms of joint replacements.16 Q. Okay. Dr. Bundtzen on the next page of
17 his note says, "Johnnie now has a temperature of 101
18 degrees."

19 Do you see that?

20 A. Yes.

21 Q. Okay. Dr. Hall, would you take a look at
22 Exhibit 12854. And my question is this: Is this
23 chart note of yours, does that kind of fully
24 describe what you've talked about a few minutes ago,
25 in terms of debridement, liner exchange, and that

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1 sort of thing?

2 A. Yes.

3 Q. Okay. What's the thinking behind removing
4 and replacing the polyethylene liner?

5 A. Well, part of the procedure, you're
6 washing things out with basically a fancy water
7 pick, which is a high pressure pulsing water. And
8 there is a space between the plastic and the metal
9 base plates. And unless you take that out, you
10 can't really get access in there to clean it out
11 real well.

12 So you take the plastic out so that you
13 can wash that surface along with everything else,
14 and then put a new one in at the end of the
15 procedure.

16 Q. Let me ask you to go back to Exhibit 2,
17 Doctor, which are your office notes. And if we
18 could look at 5007.

19 We're in now to December. Actually, the
20 day after Christmas. Do you see that --

21 A. Yes.

22 Q. -- note?

23 A. Yes.

24 Q. And you write, "The patient is 63-year-old
25 male seen in follow-up of removal of an infected

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1 left total knee. Date of surgery was the send of
2 November."

3 Now, is that different than what we were
4 discussing of the removal of the -- of the
5 polyethylene liner?

6 A. Yes.

7 Q. Tell the judge what actually transpired in
8 November.

9 A. Well, the original surgery was in attempt
10 to try to salvage the knee that he had in place. If
11 you can get rid of the infection, then that would be
12 his last surgery. Unfortunately, his infection
13 continued to get worse even with the antibiotics,
14 and that surgery and his pain got worse.

15 And so at that point we decided that that
16 approach had failed. And so the next step is to
17 remove all the metal components, and then place a
18 block of cement in the gap that's created and a
19 block of bone cement that has antibiotics in it.
20 And then go through another period of IV antibiotics
21 to try to eradicate the infection.

22 Q. How was Johnnie's leg immobilized while
23 you do that? Is it put in a cast or --

24 A. Either a cast or a brace. In this case we
25 used a cast.

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1 Q. So am I correct in visualizing that you
2 take out the knee components and you actually pack
3 antibiotics in that area?

4 A. Well, you take the cement and basically
5 just physically form a block outside of the knee.

6 Q. Right.

7 A. And once that's hardened, then you put it
8 in the gap where the metal components used to be, so
9 it doesn't all just scar down.

10 Q. Oh, okay.

11 A. So that when you come back later you have
12 space to work with to put a new knee in as opposed
13 to everything being scarred down.

14 Q. Without going through all of the chart
15 notes, do you have a -- based on your review,
16 Doctor, do you have a recollection on how Mr. Crisco
17 responded to that antibiotic surgical approach?

18 A. At least in combination with his
19 laboratories, those -- the ones that we were using
20 to track his infection returned to normal. And then
21 we did re-aspirate the knee at the end of this
22 antibiotic course, and those cultures were negative.

23 Q. Okay.

24 A. So all the evidence we had is that we had
25 eradicated the infection at that point.

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1 Q. Okay. Looking -- if you're still on 5007,
2 Dr. Hall, if you go to 5008, we are now into January
3 of '02.

4 It looks like Mr. Crisco's antibiotics
5 have been discontinued; is that right?

6 A. That's correct.

7 Q. And your physical exam shows no warmth or
8 edema. That's -- edema is swelling?

9 A. Yes.

10 Q. All right. So that's good, I take it?

11 A. Yes.

12 Q. All right. And you were talking about the
13 knee was aspirated.

14 Is that what you just told us, to run
15 another culture to see what -- whether there was
16 evidence of infection?

17 A. As a final check before proceeding with
18 the next surgery, yes.

19 Q. Okay. And that came back negative?

20 A. Correct.

21 Q. All right. So I take it everyone's hopes
22 were pretty high?

23 A. Yes.

24 Q. As of the 8th of January?

25 A. Yes.

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1 Q. All right. What followed that then? Did
2 you put another knee in?

3 A. Yes, we did.

4 Q. Okay. Same type of -- or same component,
5 the Zimmer?

6 A. Yes.

7 Q. Now, Mr. Crisco had had a higher risk of
8 infection when you replaced the Profix knee. He is
9 now having a re-revision; is that proper English,
10 medical English?

11 A. Yes, I guess you could say that. Or a
12 second revision, I guess.

13 Q. A second revision.

14 A. Yeah.

15 Q. All right. Do you know -- and I don't
16 know if there are any studies on this. But do you
17 know whether his risk of infection now is even
18 greater because of the revision?

19 A. Well, the first revision was not for
20 infection, so the literature would say this
21 two-stage protocol that he went through with
22 removing everything and putting the antibiotics for
23 infection usually has a success rate in the
24 neighborhood of 90 percent.

25 Q. And has that been your experience?

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1 A. Yes.

2 Q. If you would look at Exhibit 7, Doctor,
3 12858.4 Again, is that a clearance by Dr. Bundtzen
5 to proceed with this second revision, or am I
6 reading that wrong?7 A. No, that's correct. It's a preoperative
8 medical clearance.9 Q. Okay. Is it your practice to have either
10 an internal medicine doctor or, in this case, since
11 it's an infection issue, to get a preoperative
12 clearance from a doctor with those subspecialties?13 A. It depends upon the -- basically the
14 complexity of the surgery and also the health of the
15 patient, so --

16 Q. Okay.

17 A. -- for a revision surgery, generally we'll
18 get an internist or somebody to do a preoperative
19 medical clearance.20 Q. All right. 12861, Doctor; do you have
21 that?22 Is that the operative note for this second
23 revision?

24 A. Yes.

25 Q. And does that indicate, again, that you

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1 took fluids and tissue samples to see if
2 Mr. Crisco's knee was free of infection?

3 A. Yes.

4 Q. And how did they come out; do you recall?
5 Or is it documented here?

6 A. Well, the gram stain is something that the
7 laboratory does within half an hour, so you have
8 that information available during the surgery. And
9 that was -- they didn't see bacteria on the fluid
10 when they looked at it under the microscope.

11 Q. The next page, Doctor, 12863, says, "All
12 cultures from the time of surgery remain negative at
13 the time of discharge."

14 This is five days after your second
15 revision?

16 A. That's correct.

17 Q. Okay. So you had all the results by
18 then?

19 A. The -- one subset of cultures, which is
20 called anaerobic, can take up to six days. The
21 original bacteria they have as staph aureus shows up
22 on the other type of culture, which are called
23 aerobic cultures, so we had that information by that
24 point.

25 Q. Okay. Good. And so now Mr. Crisco is out

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1 on the 30th with his new knee?

2 A. Correct.

3 Q. And again you write, "He is ambulating
4 independent."

5 So again, that's a fairly quick recovery
6 and discharge for a second revision?

7 A. Yes. Especially considering that he
8 basically had been functioning without a knee at all
9 for two months.

10 Q. Two months; okay.

11 All right. If I could refer you back to
12 Exhibit 2, Doctor, document 5012, to establish kind
13 of a time line here.

14 That's your office chart note dated
15 February 7th, 2002; is that correct?

16 A. That's correct.

17 Q. All right. What's happening now?

18 A. He's beginning to have some drainage from
19 his wound.

20 Q. Okay. The next document, Doctor, 5013.

21 Again, your chart note dated February 11th of '02.
22 You state, Mr. Crisco's pain is improved. He's only
23 taking Percocet occasionally. And he's referred to
24 physical therapy; is that right?

25 A. That's correct.

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1 Q. All right. So into the first part of
2 February, things are going pretty well; is that
3 fair?

4 A. That's fair.

5 Q. All right. And he's progressing towards
6 full weight bearing.

7 A. Correct.

8 Q. If Mr. Crisco had reflex sympathy
9 dystrophy prior to your first revision back in
10 November when you put the new knee in, which
11 eventually became infected, would that -- let me
12 back up.

13 You don't treat RSD with surgery, do
14 you?

15 A. In general, you try not to.

16 Q. Based on your experience and your medical
17 training, if Mr. Crisco had RSD when you did the
18 first revision and corrected the slope, would you
19 expect the RSD to disappear after your revision
20 surgery?

21 A. Unless specific steps are taken to try to
22 prevent that, it will flare up and get worse.

23 Q. It would flare up and get worse, that
24 would be your --

25 A. Yes.

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1 Q. -- take on it.

2 Thank you.

3 MR. KAPOLCHOK: Your Honor, would this be
4 a convenient time to take a short break?

5 THE COURT: We'll be in recess for ten
6 minutes.

7 MR. KAPOLCHOK: Thank you.

8 THE CLERK: All rise.

9 Matter stands in recess for ten minutes.

10 (Off record.)

11 THE CLERK: All rise.

12 His Honor the Court, this United States
13 District Court is again in session.

14 Please be seated.

15 MR. KAPOLCHOK: Thank you, Your Honor.

16 BY MR. KAPOLCHOK:

17 Q. Dr. Hall, to continue our journey
18 post-second revision, Plaintiff's Exhibit 2, page
19 5016, do you have that, your office --

20 A. Yes.

21 Q. -- chart note?

22 A. Yes.

23 Q. All right. What's going on with Johnnie
24 at the end of February 2002?

25 A. It looks like his wound was doing better,

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1 with some minimal drainage, and his laboratories
2 were looking better.

3 Q. Okay. Was he able to walk? It says he's
4 ambulating.

5 A. Yes.

6 Q. Do you see that?

7 A. Uh-huh.

8 Q. All right. And his labs are looking
9 better?

10 A. Correct.

11 Q. All right. Again, is it fair to state
12 that you were encouraged?

13 A. Yes.

14 Q. Could you turn to Exhibit 7 now, and I'm
15 sorry about the flipping back and forth, but about a
16 week later. It will be Exhibit 7, 12866.

17 A. I have that.

18 Q. Okay. What is that, Doctor?

19 A. It's an operative report.

20 Q. Okay. What's going on?

21 A. It has been re-infected and we've tried
22 another attempt at salvage of his knee.

23 Q. What did you do?

24 A. The same sort of operation as previous,
25 where we opened the knee up, take the plastic liner

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1 out, strip out the lining of the knee, wash
2 everything out with that fancy water pick, and then
3 put in a new plastic liner.

4 Q. Okay. Was this the result of the return
5 of the staph infection?

6 A. Yes.

7 Q. There's reference in a following document,
8 Dr. Hall. Apparently Mister -- it's document
9 number, again part of Exhibit 7, document number
10 12868.

11 It looks like Mr. Crisco was in the
12 hospital from the 28th of February to March 5th. Am
13 I reading that right? At the top.

14 A. That's correct.

15 Q. Okay. 12868; do you have that? Okay.
16 Thank you.

17 It talks about the exchange of the tibial
18 liner and the cultures of staph aureus under
19 hospital course; do you see that?

20 A. Yes.

21 Q. And apparently Dr. Janis is involved.

22 Is that a partner of Dr. Makin?

23 A. No, he's another --

24 Q. I mean, Bundtzen?

25 A. He's an infectious disease specialist in

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1 town, and Dr. Bundtzen was out of town for a few
2 weeks. So they all are independent, but they cover
3 for each other.

4 Q. And this reference under hospital course,
5 Dr. Hall, to a Dr. Marbarger.

6 Now, Dr. Marbarger is a surgeon, is he
7 not?

8 A. Correct.

9 Q. All right. What was his involvement in
10 the treating of Mr. Crisco's flare-up or re --
11 problem with this staph aureus infection?

12 A. He placed the Groshong catheter, or the IV
13 access, that was going to be used for the long-term
14 IV antibiotics.

15 Q. Okay. And under discharge medications, it
16 seems that Mr. Crisco was fitted with an infusion
17 pump.

18 Is that related to the catheter you just
19 told us about?

20 A. That's what's used to deliver the
21 antibiotics intravenously through that catheter.

22 Q. So Mr. Crisco can basically get IV
23 antibiotics at home?

24 A. Correct.

25 Q. Could you look, Doctor, at Exhibit 2,

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1 5020. I'm sorry. 5021.

2 A. I have that.

3 Q. Okay. We're flying along into March now.

4 We were back in February; this is the middle of
5 March.

6 Could you summarize for us how Mr. Crisco
7 is doing now?

8 A. He's doing better. His wound looks -- is
9 healing. His laboratories were improving again. It
10 looks like he's responding to the IV antibiotics.

11 Q. Would it be fair to characterize Johnnie
12 Crisco's course in dealing with this infection as
13 really cyclical?

14 A. Yes.

15 Q. In general, Dr. Hall, in terms of your
16 interaction with Mr. Crisco -- and you were
17 monitoring or involved, to some degree, in dealing
18 with all these ups and downs of infection.

19 A. Uh-huh.

20 Q. Was Mr. Crisco a -- I guess the term of
21 art, or the term you hear a lot, is a compliant or a
22 cooperative patient?

23 A. I always felt he was compliant with what
24 we had asked.

25 Q. Had there been any problems with

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1 Mr. Crisco not following your advices or not doing
2 what he was told to do?

3 A. Not that I recall.

4 Q. Would you turn to the next document,
5 Doctor; 5022. It looks like we're in the second
6 week of April now. And he's -- Mr. Crisco's in to
7 see you. And you write, "The patient has had
8 improvement with his knee. He is no longer
9 ambulating with use of a cane."

10 So he's walking without either a cane or
11 crutches or anything?

12 A. That's correct.

13 Q. All right. And he's scheduled to stop his
14 antibiotics.

15 Is that what you write here?

16 A. Yes.

17 Q. Okay.

18 A. The IV antibiotics.

19 Q. Right. That's regulated and controlled by
20 either Dr. Janis or Dr. Bundtzen, though, isn't it?

21 A. Correct.

22 Q. They make those decisions?

23 A. Yes.

24 Q. All right. So once again now, April 11th,
25 Mr. Crisco was looking hopeful?

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1 A. Yes.

2 Q. Okay. If we could skip ahead to August of
3 '02, Doctor; 5029.

4 A. Okay.

5 Q. What's going on now? We're -- I went
6 ahead about four months.

7 A. He did in fact have persistence of his
8 infection. And one option was to just keep him on
9 suppressive antibiotics for the rest of his life,
10 which wouldn't eradicate the infection, but at least
11 hopefully hold it at a level that he could tolerate
12 the symptoms.

13 Q. Okay. Your conclusion then is adjusting
14 antibiotics or another surgery. And it says, "The
15 patient would very much like to avoid any further
16 surgery."

17 So this in late -- not in late, in early
18 August...

19 Would you look at 5030, which -- we're in
20 February of '03 now; okay?

21 A. Uh-huh.

22 Q. What's going on with Mr. Crisco?

23 A. At that point he developed some lumbar
24 spine problems and had seen several providers or
25 doctors for that. But because of the infection in

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1 his leg his treatment options were limited for
2 that.

3 Q. Okay. Definitely no surgery; is that
4 fair?

5 A. That's fair to say, yeah.

6 Q. Okay. Is the source of his infection
7 thought to be -- or not thought to be. Is the
8 source of infection his knee?

9 A. Yes.

10 Q. Okay. And if you would look at 5031.
11 We're into April of '03 now.

12 Why don't you review your conclusions with
13 us, Doctor, as they appear or as you recall them.

14 A. Well, basically, he had, you know, the
15 persistent pain in his knee. And we talked about
16 his -- he basically had four options, you know,
17 either to continue as he was with the oral
18 antibiotics for the rest of his life, or else have a
19 surgery to try to relieve his pain.

20 And the surgical options were either an
21 amputation, removing the components and fusing the
22 bones together. Or else another attempt at the
23 two-stage protocol to try to implant a knee that is
24 not infected.

25 Q. Okay. Now, that -- all of those options,

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1 other than the amputation had been tried; is that
2 fair?

3 A. The fusion had not been tried.

4 Q. Oh, the fusion.

5 A. Yeah.

6 Q. Describe that for us. What is -- what's
7 involved in the knee fusion?

8 A. Well, you remove all the knee components.
9 And then either use a long metal rod that stands
10 from the femur bone all the way down to the tibia
11 bone and pack bone graft at the interface, or the
12 idea is to get the two bones to grow together
13 become one bone, one really long bone, essentially.
14 Or else you could use metal plates to do the same
15 thing, or in addition to the rod. It's to basically
16 eliminate the knee joint.

17 Q. Now, if the source of the infection and
18 the pain, as you refer to in here, it says, "Due to
19 his increased pain in his left knee," I can
20 understand how removing the components would help
21 eliminate the infection, or eliminate the infection,
22 but how would a fusion do that? Would the
23 components come out?

24 A. The components would come out, assuming
25 that it's a successful fusion, which means the bones

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1 grow together, then there's no more motion at that
2 point. And then, assuming it doesn't get infected,
3 then you can just leave the hardware in forever.

4 Q. Of the options or choices that you
5 discussed in that -- or in your note, which would
6 have the highest likelihood of reducing the
7 infection that Mr. Crisco has been battling now for
8 a year and a half?

9 A. The amputation.

10 Q. Okay. Ultimately, Doctor -- and if you
11 need to refer to the notes, you know, we can do
12 that. But ultimately, I take it, you had a number
13 of conversations with Mr. Crisco about trying to
14 make a decision about these options?

15 A. Yes.

16 Q. And ultimately he agreed to or selected
17 the amputation?

18 A. Yes.

19 Q. And it was an option that you offered
20 him?

21 A. Correct.

22 Q. And do you professionally feel that it was
23 a reasonable, or even a good choice, that Mr. Crisco
24 made?

25 A. Well, if I felt it wasn't reasonable, I

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1 wouldn't have offered it. And from the notes,
2 his -- what he stated to me at the time was he
3 wanted to have the operation of giving him the best
4 chance of success with just one more surgery to try
5 to minimize, and I think that was -- that would have
6 been the amputation.

7 Q. Just to put some dates on this, Doctor.
8 If you could briefly look at 5034, part of
9 Exhibit 2. It looks like we're in to December 16th
10 of '03.

11 And you write, "Mr. Crisco is leaning
12 towards having the above-knee amputation." Then
13 there's discussion of options. And you write, "I
14 think the above-knee amputation would be his best
15 choice to have one last surgery without having to
16 worry about future surgeries on that leg."

17 That's basically just what you said --

18 A. That's correct.

19 Q. -- a few minutes?

20 A. Uh-huh.

21 Q. Okay. And then surgery was scheduled for
22 the end of February --

23 A. That's correct.

24 Q. -- is that right?

25 A. Yes.

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1 Q. Is there a reason -- it seems to be
2 significantly out there, a couple of months out
3 there. Did it have something to do with your
4 schedule, or do you remember?

5 A. I don't recall.

6 Q. Okay.

7 A. But in -- you know, he had the chronic
8 infection for quite a long time at that point, so a
9 few months either way, I don't think, made any
10 difference.

11 Q. Right. Okay. Could we go to Exhibit 7,
12 12888. 12888.

13 What is that, Doctor?

14 A. It's a discharge summary from his hospital
15 stay for the amputation surgery.

16 Q. Okay. Actually, I handed you the page 2.
17 It would be one, two...

18 I've got the wrong one here.

19 Yeah, that's what I was looking at.

20 So Mr. Crisco went in on the point in
21 time, the 25th of February of '04, correct?

22 A. Correct.

23 Q. And then was discharged three days
24 later?

25 A. Correct.

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1 Q. Okay. And, I don't know, is -- any
2 complications or problems with that surgery?

3 A. Not immediately.

4 Q. All right. Were there some complications
5 or problems?

6 A. Yes. He came back later with a problem
7 with the soft tissue coverage over the femur of the
8 stump.

9 Q. Is that discussed in Exhibit 7, 12995? It
10 talks about a revision of the left knee.

11 A. Yes.

12 Q. Okay. All right. We do need to cover
13 this a little bit.

14 Do you have that one? 12995.

15 Okay. This is now in September of '04; is
16 that correct?

17 A. That's correct.

18 Q. All right. So it's about six-and-a-half
19 months after the amputation?

20 A. Correct.

21 Q. All right. Why is Mr. Crisco in seeing
22 you; what happened to him and what help did you
23 provide for him?

24 A. He was involved in an accident where
25 the -- his -- end of his residual leg -- I think it

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1 was an automobile accident -- was struck, and the
2 soft tissue coverage on the end of the femur got
3 torn free.

4 Normally, we like to have muscle covering
5 the end of the femur, so you've got some padding
6 between the skin and the bone. And, unfortunately,
7 that tore free, leaving his skin directly underneath
8 the -- or, excuse me. The femur bone directly
9 underneath the skin, causing him problems with his
10 prosthesis wear and with pain.

11 Q. So a jamming injury in an auto accident?

12 A. Yes.

13 Q. Doctor, Mr. Crisco was attempting to use a
14 prosthesis or an artificial limb?

15 A. Yes.

16 Q. Do you get involved in either the fitting
17 or the -- not the manufacturing, but the fitting and
18 the education that's required to use that?

19 A. Usually not. It's handled by the
20 prosthетist.

21 Q. Okay. And in this case, Mr. Crisco needed
22 some surgical help because of an injury to the -- I
23 don't know the medical term for it, but the stump of
24 his leg?

25 A. Yes.

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1 Q. Okay. Was this pretty close to your last
2 involvement with Johnnie Crisco medically? I know
3 my documents might have ended there, but do you have
4 a recollection of any further medical involvement
5 with Johnnie?

6 A. No further surgeries. I think I had seen
7 him as a patient a few months after that, and then
8 that was the last time I had seen him.

9 Q. Okay. Doctor, I'm just about done. I'd
10 like to ask you about two other -- two other
11 documents.

12 One is Defendant's Exhibit D-1. I'll hand
13 that to you.

14 Do you have enough light to read?

15 A. Yeah.

16 Q. Okay. Doctor, before I ask you about
17 that, I forgot one thing, and it's addressed in the
18 medical records.

19 What is phantom pain?

20 A. After an amputation, sometimes patients
21 will have a sensation of pain in the amputated part,
22 which can persist indefinitely.

23 Q. Is it -- is it a very unusual phenomenon,
24 or is it --

25 A. Not uncommon after amputation surgery.

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1 Q. In fact, there's some protocol that
2 doctors use to try to avoid that, isn't there?

3 A. Yes. There is things you can do.

4 Q. Right. And there is something that you
5 tried in Mr. Crisco's case, wasn't there?

6 A. Well, in general, there is some things you
7 can do during surgery, such as injection or blocking
8 the nerves before you section them.

9 Q. Right.

10 A. And then afterwards -- or during the
11 surgery have them have a specific type of anesthesia
12 called an epidural and leave that in for several
13 days afterwards to try to prevent that from -- cycle
14 sort of starting.

15 Q. Doctor, I've handed you defendant's D-1,
16 which appears to be a note from a Dr. Schumacher or
17 Maker.

18 Do you have that?

19 A. Yes.

20 Q. Do you recall -- what is the date of that
21 note?

22 A. May 8, 2001.

23 Q. All right. So that was before Johnnie
24 Crisco saw you for the analysis of why his left knee
25 was painful?

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1 A. Yes.

2 Q. Do you remember, one way or the other,
3 whether this was part of the records that Mr. Crisco
4 presented to you from the Veterans Administration?5 A. I don't recall. And I just mentioned VA
6 notes in my chart notes, so I don't know.

7 Q. Okay. Do you know a Dr. Schumacher?

8 A. Yes.

9 Q. How well do you know him?

10 A. Just very peripherally through
11 professional meetings in town.12 Q. I'd like to compare his findings of May
13 8th, 2001, with yours, when Johnnie came in to see
14 you and you did the bone scan and you did the
15 additional x-rays. Okay?16 The complaint to Dr. Schumacher was of the
17 same painful left knee, Doctor?

18 A. Yes.

19 Q. He's only four months post-surgery.
20 Mr. Crisco complained of pain with weight-bearing.
21 Is that essentially what he told you also when he
22 came to see you?

23 A. I believe so, yes.

24 Q. He had no complaint of significant back
25 pain; that's consistent with the way he presented to

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1 you?

2 A. Yes.

3 Q. Pain is not radicular in nature. What
4 does that mean?5 A. The distribution of pain, if it's --
6 radicular means from a nerve in the spine. And that
7 usually follows the skin distribution that that
8 nerve covers.9 And so if it's radicular, it's usually a
10 long, narrow swath, like the side of the leg or the
11 side of the calf. If it's focal, just at the knee,
12 that's usually not radicular.13 Q. Okay. So it wasn't radicular with
14 Dr. Schumacher, nor was it radicular when he
15 presented to you?

16 A. No.

17 Q. No hip pain with motion. Do you recall
18 Mr. Crisco complaining of hip pain when he saw
19 you?

20 A. No.

21 Q. Okay. No fever or chills; same results
22 when he saw you?

23 A. Correct.

24 Q. Dr. Schumacher notes the range of motion
25 on his examination, and he talks about mild

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1 effusion. What is that?

2 A. Effusion is fluid in the knee. So there
3 was a small amount of fluid in the knee at that
4 point.

5 Q. Okay. Do you recall whether Mr. Crisco
6 had any small amounts of fluid in his knee when he
7 saw you back in -- later on in October?

8 A. My initial chart note is that I didn't see
9 it or appreciate an effusion.

10 Q. Okay. And then the test that
11 Dr. Schumacher did included -- included what?

12 A. Looks like he aspirated the knee. And did
13 a cell count on the fluid and also sent it for
14 culture. And he did other laboratories, including a
15 sedimentation rate, which is basically a marker for
16 inflammation, which is -- a CRP is a C-reactive
17 protein, which is also just a marker for
18 inflammation, and then the white blood count.

19 Q. And Dr. Schumacher concluded, did he not,
20 that he believes the pain Mr. Crisco is suffering
21 was coming from his knee, correct?

22 A. That's his impression, yeah.

23 Q. Right. And his impression was that there
24 was no infection?

25 A. That's correct.

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1 Q. All right. And in fact, Doctor, when you
2 reviewed several months later all of the labs from
3 the government, from the veterans, none of them
4 showed an infected knee, did they?

5 A. No evidence of that, no.

6 Q. All right. Doctor, could you look at
7 Exhibit 1?

8 THE COURT: This is Plaintiff's 1?

9 MR. KAPOLCHOK: Plaintiff's 1, yes, Your
10 Honor.

11 BY MR. KAPOLCHOK:

12 Q. Could you identify that for the court?
13 It's a two-part document. It's a letter dated
14 April 4, 2002, and then a letter dated April 2,
15 2002.

16 Could you just tell us what it is?

17 A. Well, the one dated April 4, 2002, is my
18 response to Thomas Williams regarding some questions
19 about Mr. Crisco's medical case.

20 Q. Okay.

21 MR. KAPOLCHOK: I move the admission of
22 Plaintiff's 1.

23 THE COURT: Is there objection?

24 MR. POMEROY: I'd object if it's being
25 offered for the truth of it is -- of the document

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1 itself. I mean, he's -- as far as his testimony as
2 to his opinion, he's testified to it. If it's being
3 offered for some other purpose, I don't think I
4 would object.

5 THE COURT: What does this tell us that we
6 don't already know?

7 MR. KAPOLCHOK: Only that Dr. Hall held
8 these opinions back -- back in April 4th of 2002,
9 before even the amputation. And that was my main
10 purpose in offering the paper.

11 THE COURT: Any further thoughts,
12 Mr. Pomeroy?

13 MR. POMEROY: If it's just for the timing
14 purpose, then I would not object.

15 THE COURT: I would admit for the purpose
16 of reflecting the timing of the formation of
17 Dr. Hall's opinions.

18 MR. KAPOLCHOK: Thank you.

19 (Plaintiff's Exhibit 1 admitted into evidence.)
20 BY MR. KAPOLCHOK:

21 Q. Dr. Hall, the last thing I'd like to do is
22 ask you if there's a typo on that letter, on page --
23 well, the second page.

24 The second page begins, "Of the increased
25 activity"; do you see that?

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1 A. Yes.

2 Q. Okay. And then it goes down and it says,
3 "Related to mild position of the tibial component,"
4 then it goes on to say, "This type of malposition."

5 Should that "mild position" be
6 "malposition"?

7 A. Yes.

8 Q. All right. Could you change -- since
9 you've got the original exhibit, would you change it
10 yourself?

11 A. Is that acceptable?

12 Q. Thank you, Dr. Hall.

13 MR. KAPOLCHOK: If I might have just 20
14 seconds, Your Honor, to consult?

15 THE COURT: Certainly.

16 MR. KAPOLCHOK: Dr. Hall, thank you for
17 your patience, especially going through these
18 medical records in kind of a stumbling fashion, but
19 I didn't know any other way to do it.

20 THE COURT: Mr. Pomeroy, you may
21 cross-examine.

22 MR. POMEROY: Yes, Your Honor.

23 Which button do we push to turn the lights
24 back on?

25 Thank you.

1 CROSS-EXAMINATION

2 BY MR. POMEROY:

3 Q. Good morning, Dr. Hall.

4 If I understand your testimony correct,

5 you have -- other than your experience with

6 Mr. Crisco, you've not used the Profix knee

7 replacement that's manufactured by Smith & Nephew?

8 A. Not that I recall. I used some Smith &

9 Nephew when I was in residency, but I don't think

0 Profix was around back then.

1 Q. Okay. And do you know offhand how many
2 manufacturers of knee replacements there are?

3 A. It's a pretty large number. Just for use
4 in the United States, I would say there may be even
5 as much as 40 or 50.

6 Q. What would denote a normal range of motion
7 for a knee that's not affected arthritic, I mean,
8 some -- just a regular normal healthy person, what
9 would that individual's range of motion likely be?

20 A. Usually from full extension to flexion,
21 anywhere from 135 degrees to maybe 140, 145.

Q. Okay. Would the starting range be zero?

23 A. Yes.

24 Q. To 135 or 140?

25 A. Yeah.

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1 Q. Okay. The 0 degrees measuring
2 extension?

3 A. Correct.

4 Q. And the second number being the flexion?

5 A. Correct.

6 Q. Good. And what -- after a total knee
7 replacement, an acceptable range of motion would be
8 0 to 90 degrees or better?

9 A. Yes.

10 Q. You would not have the same degree of
11 flexion with a knee replacement as you would with a
12 healthy knee --

13 A. No.

14 Q. -- correct?

15 And when you examined Mr. Crisco in
16 October, as I think you used the first document in
17 Plaintiff's Exhibit 2, you indicated that his range
18 of motion was 0 to 110 degrees?

19 A. Correct.

20 Q. And that's a good range of motion for an
21 individual with a knee replacement; isn't that
22 true?

23 A. Yes.

24 Q. And you testified that you believe that
25 he -- Mr. Crisco's initial surgery was with an

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1 anterior slope?

2 A. Correct.

3 Q. And you showed the x-ray from March 12th,
4 2001, to demonstrate that point to the court?

5 A. Correct.

6 Q. Now, you have before you a model with a
7 knee replacement?

8 A. Yes.

9 Q. And now, if you had an anterior slope,
10 isn't it true that you would not expect in physical
11 finding to have flexion of 110 degrees?12 A. You can. It just depends upon where the
13 knee is loose. If it's loose in extension, you can
14 still get that degree of flexion.15 Q. Well, my understanding is that on your
16 examination you did not find any loosening of the
17 knee joint, because that was one of the things you
18 were looking for and you said there wasn't any
19 loosening.20 A. That was with collateral ligaments. The
21 ligaments on the side.

22 Q. Right.

23 A. That's a different part of the exam.

24 Q. So your testimony is that with an anterior
25 slope you would still get normal flexion?

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1 A. You could, yeah.

2 Q. Now, you showed the x-ray that you
3 examined -- I mean, demonstrated to the judge, that
4 was not a full-leg x-ray of the tibia, was it?

5 A. No.

6 Q. It showed about a quarter of the tibia, or
7 maybe less?

8 A. Maybe, I don't know, a third.

9 Q. A third to a quarter?

10 A. Yeah.

11 Q. Would you agree that the best way to
12 measure the long axis -- axis, A-X-I-S -- would be
13 to take a full-leg x-ray and measure that axis from
14 the ankle to the knee?

15 A. Probably, yes.

16 Q. Because anything less -- there is a range
17 for misinterpretation, depending upon the
18 individual's tibia, correct?

19 A. If they've had a previous deformity that
20 you're not seeing on your x-ray. Otherwise, then,
21 the anterior part of the tibia is sufficient.

22 Q. I mean, not every -- not every tibia is
23 identical?

24 A. Correct.

25 THE COURT: I'm sorry, I didn't catch the

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1 first answer. Was your answer that it is better to
2 have a full-leg x-ray?

3 THE WITNESS: If you suspect that they've
4 got some deformity like that where their tibia is
5 abnormal.

6 THE COURT: Any reason to suspect that
7 Mr. Crisco had such a deformity?

8 THE WITNESS: No, he's a pretty thin
9 individual, and I thought I could see it pretty
10 well.

11 BY MR. POMEROY:

12 Q. But you did not order a full-leg x-ray
13 too?

14 A. No, I did not.

15 Q. And in all the x-rays that you've seen,
16 there's -- there isn't a full-leg x-ray that you've
17 seen?

18 A. Not that I've seen.

19 Q. Because if you did, then we'd have the
20 Perry Mason moment.

21 After you saw initially Mr. Crisco in
22 October 2001, you didn't contact any of the doctors
23 at the VA to talk to them about his care or medical
24 records, correct?

25 A. Correct.

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1 Q. Did you request any additional medical
2 records from the VA?

3 A. No.

4 Q. The only records that you were presented
5 was what Mr. Crisco brought to you?

6 A. Correct.

7 Q. And you testified that the bone scan that
8 you took was to show uptake in white blood cells?

9 A. Yes.

10 Q. And for a -- for a bone scan now, if you
11 took a bone scan, such as the one you took of the
12 patient one month after a total knee construction,
13 you would expect to see an uptake in the region of
14 the surgery; is that correct?

15 A. That's correct.

16 Q. And isn't it true that you see -- I mean,
17 depending, again, variance from patient to patient,
18 because not everyone is identical. But isn't it
19 true that you can see hot spots in a bone scan for a
20 long period of time after surgery?

21 A. Yes.

22 Q. And isn't it true that you can actually
23 have hot spots up to a year after that total knee
24 surgery?

25 A. Yes.

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1 Q. And Mr. Kapolchok did not draw your
2 attention to what had been Plaintiff's Exhibit 6.
3 So I guess -- I'll move for admission of Plaintiff's
4 Exhibit 6.

5 MR. KAPOLCHOK: That's fine. Sure. No
6 objection.

7 THE COURT: Any objections, Mr. Kapolchok?

8 MR. KAPOLCHOK: No, sir.

9 THE COURT: Plaintiff's 6 is admitted.

10 (Plaintiff's Exhibit 6 admitted into evidence.)

11 BY MR. POMEROY:

12 Q. Can you identify that document for us?

13 A. It's a bone scan report from Providence
14 Alaska Medical Center.

15 Q. And that's the test that you had ordered,
16 correct?

17 A. Correct.

18 Q. And is there anything in the document or
19 the findings or impressions of the radiologist that
20 read this that indicated uptake in the patella
21 region?

22 A. He doesn't mention the regions.

23 Q. Okay. But he did state that it's
24 consistent with recent prosthesis placement?

25 A. Correct.

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1 MR. POMEROY: Just a moment, Your Honor.

2 I think those are the only questions I
3 had, Your Honor. Thank you.

4 THE COURT: Anything further,
5 Mr. Kapolchok?

6 MR. KAPOLCHOK: Very briefly, Your Honor.

7 REDIRECT EXAMINATION

8 BY MR. KAPOLCHOK:

9 Q. The bone scan, Dr. Hall, you ordered, was
10 one of the reasons to address the suspicion or
11 possible RSD?

12 A. Yes.

13 Q. And was another reason to examine the
14 consequences of what you saw from the government's
15 x-rays of what we call malposition?

16 A. Yes.

17 Q. And, in your opinion, is the bone scan the
18 best diagnostic tool that was available to help you
19 make a diagnosis with respect to these two
20 conditions?

21 A. Yes. If it's malposition, you would
22 expect to see stress along the tibia and then also
23 on the patella, and that's what I saw. So that, to
24 me, fit with the previous concern about the
25 malposition.

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1 Q. And, in general, you were asked about the
2 radiologist reading of the bone scan. And
3 radiologists read x-rays when you order x-rays too,
4 don't they?

5 A. Yes.

6 Q. And do you always read the films
7 yourself?

8 A. Yes, I do. I often have difference of
9 opinion from the radiologists. As a specialist, I
10 just have to know one small area of radiology, just
11 orthopedics; they have to know everything, so
12 oftentimes, like I said, we have difference of
13 opinion.

14 MR. KAPOLCHOK: All right. Thank you.
15 That's all I have.

16 THE COURT: Doctor, before you go away.
17 With respect to that exhibit, that x-ray that we
18 were looking at, it's part 3-A of 6.

19 Is there -- do you have any reason at all
20 to believe that that x-ray did not accurately
21 reflect the angle that you were measuring?

22 THE WITNESS: No.

23 THE COURT: Okay. Thank you.

24 Did that lead to questions from anybody
25 else?

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1 MR. POMEROY: No, Your Honor.

2 MR. KAPOLCHOK: No.

3 THE COURT: Doctor, thank you very much
4 for being a witness here.

5 May we excuse the doctor?

6 MR. POMEROY: Yes, Your Honor.

7 THE COURT: Thank you, sir. You're
8 excused.

9 (Counter 11:24:45.)

10 * * * * *

11 (Counter 01:44:20)

12 THE CLERK: If you'd stand before me so I
13 can swear you in.

14 Please raise your right hand.

15 (Witness sworn.)

16 THE CLERK: Thank you. Please have a seat
17 in the witness box.18 Please speak into the microphone at all
19 times.20 Please state your full name, spelling your
21 last name and a current address.22 THE WITNESS: My name is Umesh T. Bhagia
23 spelled B-H-A-G-I-A. Address is 24676 Calle Largo,
24 C-A-L-L-E, L-A-R-G-O. That's Calabasas,
25 C-A-L-A-B-A-S-A-S, California, 91302.

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1 THE CLERK: Thank you.

2 THE COURT: You may inquire.

3 DIRECT EXAMINATION

4 BY MR. POMEROY:

5 Q. What's your profession?

6 A. I'm an orthopedic surgeon.

7 Q. And where are you currently practicing?

8 A. I'm in West Hills, California.

9 Q. And how long have you been practicing
10 there?

11 A. One year.

12 Q. And, Doctor, where did you get your
13 medical education?14 A. I started in India with my medical
15 education.16 Q. And that's the nation -- that's where you
17 were born, correct?

18 A. That's where I was born.

19 Q. And where did you go to college and
20 medical school?21 A. I was born in Baroda and I went to medical
22 school in Baroda Medical College.23 I also did an orthopedic residency there
24 at the Baroda Medical College.

25 Q. When did you get your medical degree?

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1 A. That was in 1986.

2 Q. And then you immediately went into a
3 residency program?

4 A. That's correct.

5 Q. And what was that residency program in?

6 A. That's orthopedic surgery.

7 Q. And how long was that residency program?

8 A. That was four years. It was a three-year
9 program and a fourth year option of chief residency
10 that some of us are invited to do if we want to
11 continue further, so I did my fourth year.

12 And then pretty much immediately after
13 that I came to the U.S.

14 Q. And when you came to the United States,
15 did you have to get -- I mean, what additional
16 education or such did you need to obtain in order to
17 practice in the States?

18 A. Here they do not recognize the residency,
19 but they do recognize medical school. If you are
20 able to clear the ECFMG, or what's now called the
21 National Boards. So I cleared the National Boards
22 and had to start again at the residency level.

23 Q. And where did you do your residency in
24 the -- well, first of all, did you -- you did an
25 internship?

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1 A. Yeah, I -- you know, I wanted to do
2 orthopedics, because I was an orthopedic surgeon
3 already in India. It's very difficult to get in, so
4 I went through a couple of years of internship and
5 kept applying until I matched into a spot in
6 Georgia.

7 Q. And where did you do your internship?

8 A. That was in New Haven, Connecticut, as
9 part of Yale University.

10 Q. And was that internship specialized in any
11 way?

12 A. It was a general surgery, general
13 internship, yeah.

14 Q. And then, I believe, you stated in 1993
15 you were accepted into a residency program?

16 A. Yes. From '93 to '98 I was in Augusta,
17 Georgia, doing an orthopedic residency.

18 Q. And within a residency program, are there
19 areas of subspecialization or...

20 A. The residency is five years of
21 orthopedics. You know, you go through different
22 rotations. The rotations are set up with
23 different -- what we call attendings. In other
24 words, they are professors who specialize in
25 different things.

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1 And you do three or four months with each.

2 And you go through the different years as -- and you
3 are given more and more responsibility as you
4 advance through the residency.

5 Q. And was that similar to the residency
6 program in India?

7 A. Very similar. You know, it's more
8 technologically advanced here, but the patient care
9 and caring for people is the same.

10 Q. And what did you do after the completion
11 of your residency?

12 A. After the residency, I had a little -- I
13 had a payback to do to the U.S. Government as part
14 of them allowing me to train and taking part in my
15 training. So I came to work for the VA and Air
16 Force Base here in Anchorage. That was in October
17 '98.

18 Q. And how long were you at the Veterans
19 Administration here in Anchorage?

20 A. I left in January of 2003. So a little
21 over four, four-and-a-half years.

22 Q. And why did you leave?

23 A. Mostly for being close to the family.
24 Family is all in California, so that's where my wife
25 wanted to move.

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1 Q. Your wife's family is in California?

2 A. My wife's family -- my in-laws are in
3 California.

4 Q. I think most people understand that.

5 When you moved to California, where did
6 you -- did you move to West Hills or --

7 A. No. I first went to Vasilias, which is a
8 smaller town. You know, I felt that the transition
9 from Alaska to LA would be too dramatic for me. So
10 I went to a small town and practiced, but
11 immediately realized that, you know, my interest was
12 joint replacement, I wasn't doing enough of that
13 work, type of work I wanted to do.

14 So a couple of years into it I decided
15 that I needed to move on and look at a bigger
16 place.

17 Q. And did you immediately go to the current
18 practice in West Hills?

19 A. No. I took a year out of my practice and
20 went and did a fellowship in joint replacement at
21 the Mayo Clinic down in Scottsdale.

22 Q. And what was the focus of that
23 fellowship?

24 A. It was hip and knee replacement. And
25 mostly, you know, Mayo Clinic is a referral place,

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1 so it's complicated joint replacement and large
2 volume.

3 Q. And what's the nature of your practice
4 currently in West Hills?

5 A. It's about 75 percent total joint
6 replacement and 25 percent trauma and other things.
7 So most of it is joints, hips and knees.

8 Q. And you're board certified in orthopedic
9 surgery?

10 A. Yes.

11 Q. And what's the certifying entity?

12 A. It's the American Academy of Orthopedic
13 Surgeons.

14 Q. And any other professional associations or
15 memberships?

16 A. We are all members of the local, like
17 California Orthopedic Society. In fact, I'm still a
18 member of the Anchorage Orthopedic Society.

19 Q. And in which states are you licensed to
20 practice medicine?

21 A. Currently in Arizona and California. I
22 gave up my Georgia license this year, because I
23 don't anticipate going back there.

24 Q. And you never did have an Alaska license,
25 correct?

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1 A. No. That is correct, I did not have
2 Alaska license.

3 Q. And why is that?

4 A. The VA allows you to practice as long as
5 you have any state license. And I had my Georgia
6 license current when I came here. And since I was
7 not going to practice outside the U.S. Government
8 entities, which are the VA and the Air Force Base, I
9 didn't need it.

10 Q. It's similar with lawyers. Several of my
11 colleagues are not members of the Alaska Bar.

12 Obviously we're here because of the joint
13 replacement that you performed for Mr. Crisco. One
14 thing I'd like to sort of set the -- a little bit of
15 background of how the orthopedic clinic at the VA
16 was set up and operating in the fall of 2000 when
17 Mr. Crisco first came to inquire into getting his
18 left leg replaced.

19 What was the staffing at the VA then?

20 A. There were two orthopedic surgeons,
21 Dr. Paton and I. And Ben Hull was the physician's
22 assistant, although he probably had been in
23 orthopedics longer than either of us. He was the --
24 all three of us would see the patients when they
25 came. And each of us could independently see

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1 patients and make decisions.

2 But there was quite a bit of discussion
3 between the three of us, especially if someone was
4 about to have an operation or surgery was
5 recommended. Then Mr. Hull would bring us the
6 x-rays and go over the appropriateness of the
7 procedure.

8 And once that was done, we would then see
9 the patient, either at the time of what's called a
10 preoperative visit where we get consent and go over
11 a few things, or an extra visit in between to
12 clarify things.

13 Q. How many years of experience did Mr. Hull
14 have in orthopedics, if you recall?

15 A. I recall him being an orthopedic PA for 18
16 or 20 years.

17 Q. And how long has Doctor -- is it Paton or
18 Paton?

19 A. Paton.

20 Q. Okay. P-A-T-O-N?

21 A. Yes.

22 Q. When did he leave the VA?

23 A. I cannot recall, but it was -- I think it
24 was 2001 or 2000. It's -- you know, it just seems,
25 as I recollect, that Dr. Hall left ANMC. That

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1 created an opening, and Dr. Paton went to ANMC.

2 This is just what I seem to remember. I'm not
3 sure.

4 Q. Dr. Paton was not with the VA at the time
5 of Mr. Crisco's surgery?

6 A. I couldn't tell you. It was very close to
7 that time, so he might have just left or been about
8 to leave.

9 Q. Okay. When Mr. Crisco came in in November
10 of 2000 to ask for the knee replacement, did you see
11 him?

12 A. I saw him -- in November, no, I don't
13 think I saw him. I think Mr. Hull saw him.

14 Q. Okay. And that would be standard
15 operating procedure for the clinic?

16 A. Yes. He did show me the x-rays at that
17 time, and we went over the films and said yes, you
18 know, this is someone who may be a reasonable
19 candidate for replacing the knee.

20 MR. POMEROY: Okay. And with the court's
21 indulgence, I'll sort of wait to do the x-rays all
22 at once rather than bouncing --

23 THE COURT: That's fine.

24 MR. POMEROY: -- back and forth.

25 ///

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1 BY MR. POMEROY:

2 Q. So when did you first meet Mr. Crisco?

3 A. I believe it was in January of 2001.

4 Q. And that would have been in conjunction
5 for what?6 A. That was a preoperative visit, where we go
7 over the risks and benefits involved with surgery
8 and make sure that, you know, there were no other
9 issues that may prevent us from going ahead with
10 that, with the operation.11 Q. And what's the general preoperative
12 workup?13 A. The general workup is lab work, x-rays. A
14 discussion of the risks and benefits. And the
15 history and physical exam, which, you know, is
16 variously done either by an internist or in our case
17 Mr. Hull used to do the physical exam. I would go
18 over labs and cardiogram, chest x-ray and all that,
19 to make sure that everything's okay.20 Q. And then would you meet with Mr. Crisco to
21 explain to him the risks and --

22 A. Yes.

23 Q. -- I guess, pluses and minuses of
24 potential --

25 A. Yeah, the pros and cons -- excuse me. The

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1 pros and cons of the surgery. Also go over
2 examination, you know, one more time to see if
3 there's any instabilities, deformities that need to
4 be corrected. Look at the x-rays again to see what
5 exactly -- we call it templating the x-rays, or
6 measuring out the bones to see approximate type of
7 implant or the size of implant that will be needed.

8 Q. And what were the risks associated with
9 this kind of surgery?

10 A. The risks, you know, pretty much are
11 standard for all knee replacements with little
12 change in the frequency of percentage based on what
13 you've had before. And, you know, because of
14 previous operations, the risks of infection would be
15 slightly higher. And the risk of stiffness,
16 actually, would be higher. And some risks of
17 persistent pain would be higher based on previous
18 surgery.

19 Q. And Mr. Crisco had previous surgery on his
20 left knee?

21 A. He had -- yes. Because there was staples.
22 Staples meaning, you know, these metal clips in the
23 tibia, which we see on an x-ray, that had been
24 placed from an osteotomy that was done a long time
25 ago.

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1 Q. And what is an osteotomy?

2 A. An osteotomy is cutting of the bone to
3 realign it. And then it's just fixed with the
4 staples. It can be fixed with plates or other
5 things, but it works for a while.

6 Q. And what kind of osteotomy had Mr. Crisco
7 had performed?

8 A. This one is called a high tibial
9 osteotomy, so it's in the upper portion of the
10 tibia, or the leg bone.

11 Q. And actually, would it help if -- sort of
12 with the little knee demonstration to show sort of
13 what would have been --

14 A. Sure.

15 Q. -- done? I'm just -- (indiscernible).

16 A. So the osteotomy that is done is in the
17 upper portion. And what frequently happens is the
18 knee wears out more on one side than the other,
19 which causes a change in the alignment.

20 And to realign it, we take a wedge of bone
21 out from the proportion, and then close it here so
22 that the leg becomes realigned and the
23 weight-bearing axis is improved.

24 Q. And I think the records show this had been
25 done several years before.

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1 A. That is correct.

2 Q. But you can still -- there's still
3 evidence of that osteotomy on the x-rays that --

4 A. Yes.

5 Q. -- or at least the preoperative x-rays?

6 A. Yes.

7 Q. And was Mr. Crisco a good candidate for a
8 knee replacement surgery?

9 A. Yes. Based on both the complaints of
10 progressive pain and difficulty with activities, as
11 well as loss of joint space on the x-rays, and spur
12 formation, he would be considered a good
13 candidate.

14 Q. And you obtained Mr. Crisco's consent for
15 the operation?

16 A. Yes.

17 Q. And would you please describe the
18 operation that you performed.

19 A. Yes. The operation is performed in the
20 supine position with the patient on the back.
21 Anesthesia is given, which is either spinal or
22 general. I do not recollect which it was.

23 The leg is then elevated. It's prepped
24 with some antiseptic solution. The leg is elevated
25 to get the blood out of the leg and a tourniquet is

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1 applied, which is a big cup that is applied to a
2 proportion of the leg to prevent bleeding at the
3 time of surgery.

4 After that, an incision is made on the
5 front of the knee. It's a straight up and down
6 incision, which is anywhere from 5 to 6 inches long.
7 Once you are inside the skin and the tissue, the
8 tendons are visible.

9 We make an opening around the kneecap
10 along these tendons. And then the kneecap is
11 shifted to the side. And oftentimes it's what we
12 call everted, so it is flipped over. Then we can
13 get inside the knee. And we are looking at it
14 something like this.

15 Q. And that's -- it's -- you have the
16 knee then --

17 A. The knee is bent.

18 Q. -- bent?

19 A. Yes. The knee is bent so we can look
20 inside. And then the remnants of the cartilage or
21 the ligaments are removed.

22 In Mr. Crisco's case, one of the
23 ligaments, which is the anterior cruciate ligament,
24 was removed. The one on the back side was
25 retained.

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1 Q. And why did you -- do you normally retain
2 the posterior cruciate ligament?

3 A. It's -- both are very acceptable ways of
4 doing it. At that time I was retaining the
5 posterior cruciate ligament. And it seemed to work
6 well with that system that I was using, which was
7 the Profix knee.

8 After this we drilled the bone and go into
9 the canal of the femur, and that's for placing an
10 intramedullary alignment guide. So the length of
11 the bone is then used as an alignment, because the
12 rod is sitting in the center of the bone.

13 After that we measure the bone. We size
14 it, so to say. And they come in different sizes
15 three millimeters apart. So we label it -- in this
16 particular system they are called C, D, E, F, G
17 sizes.

18 We measure their size, and then that size
19 cutting block, which is a jig or a block which has
20 slots in it, is then placed on the end of the femur.
21 This is placed in a specific amount of rotation and
22 angulation. Again, there's a slight variation in
23 how different people do it.

24 With that system, I was using five degrees
25 of valgus, which is this alignment. Because that's

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1 sort of how the angle of the femur is. And 3
2 degrees of external rotation, which is this way.
3 That's what seems to be the best alignment on the
4 femur.

5 Once that block is placed we make five
6 cuts, which are called anterior, which is this one;
7 posterior, which is that one; chamfer cuts, which
8 are angled; and a distal cut which cuts here.

9 And all of these are about -- when you
10 look at the bone, about 8 or 10 millimeters of bone
11 is removed. And then the end of the bone is shaped
12 in a five-faceted shape, which conforms exactly to
13 the size of the implant you're going to use.

14 Once that is done, we can actually clean
15 out the back side of the femur as well. We clean
16 out more -- more cleaning of the spurs and all that
17 is done.

18 Then we go over to the tibia. The
19 tibia -- in those days I was using an intramedullary
20 alignment, so we drill a hole into the tibia
21 straight down into the canal. And the rod is
22 sticking out here. You put the cutting guide or jig
23 in front.

24 Q. And for the Profix knee that you were
25 using, what kind of tibial cutting jig was used?

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1 A. Two jigs are available. There's a 0
2 degree jig, which cuts at 90 degrees to the long
3 axis of the tibia. And there's 4 degree jig
4 available, which cuts a 4 degree posterior slope
5 into the tibia. And I was doing a 0 degree.

6 Typically I would do 0 degrees for someone
7 who had really good bending or flexion of the knee
8 before surgery. And if they had trouble with
9 bending, we wanted to take more bone off from the
10 back, so we would do a 4 degree cut. And --

11 Q. And how was Mr. Crisco's range of
12 motion?

13 A. As I recall, he had very good bending of
14 his knee. I think it was 120 or 125 even before the
15 surgery. So, you know, there was plenty of bending
16 and I felt that it would be more stable to do a 0
17 degree cut.

18 Interestingly, this knee system has a 3
19 degree slope built into the polyethylene component.
20 So if you're cutting at 0, you're actually giving a
21 3 degree posterior slope to the patient.

22 Q. So that the metal component would look
23 at -- would appear to be at 0?

24 A. The metal would look like it's at 0
25 degrees, or what would be 90 degrees to the long

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1 axis or length of the bone. And yet, because the
2 plastic is shaped in a certain way, you have a 3
3 degree posterior slope.

4 So the principle of that slope is built
5 into the plastic.

6 Q. Now, let me interrupt you for just a
7 minute.

8 Now, Dr. Hall this morning testified that
9 he uses a Zimmer knee?

10 A. Yes, that is correct.

11 Q. Are you familiar with the Zimmer knee?

12 A. I'm very familiar with the Zimmer knee.

13 Q. Okay.

14 A. That's what I'm using now.

15 Q. And let me -- why are you using the Zimmer
16 knee now?

17 A. That has to do with institutional support
18 and, you know, how the knees are brought in by
19 the -- what's called the implant representative or
20 company representative.

21 And each region has some implant company
22 that is relatively dominant or that service the
23 hospital well. And so here it just so happened the
24 Smith & Nephew was -- the rep was very available and
25 knowledgeable, so we use that.

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1 And when I moved here, you know, the
2 Zimmer rep was really the one who was there all the
3 time and taking care of us, as far as bringing the
4 right implants and being there, so I had no trouble
5 switching. Any of the Smith & Nephew rep is hardly
6 ever seen, so I don't want to be in a situation
7 where you are doing a case and parts are missing or,
8 you know, the rep is not available, so...

9 But during my training I was basically
10 exposed to more than one type of implant. And I
11 happen to do many hundreds of Smith & Nephew
12 implants and Wright medical implants and Zimmer and
13 DePuy.

14 So, to me, it was all equal based on how
15 good the support is for the institution.

16 Q. Okay. And for the Zimmer knee, for the
17 tibial cutting block, is that different than from
18 the Smith & Nephew?

19 A. That is also available in different
20 angles. You can use a 7 degree block. You can use
21 a 3 degree block, which is also available. And,
22 interestingly, the external alignment that we use,
23 the way this alignment rod works, is you're able to
24 change the slope, you know, even despite the fact
25 that you have a 7 degree block, you can actually cut

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1 it 3 or 4 or 5 degrees by changing a few things on
2 the jig. And most people do that based on how much
3 flexion there is or what stability they want.

4 Q. So anyway, going back to Mr. Crisco's
5 surgery --

6 A. Yes.

7 Q. -- you're making --

8 A. So the tibial rod is inserted, the tibial
9 cut is made. I made a 0 degree cut, which is
10 perpendicular to the long axis of the tibia, which
11 would be -- the long axis is here, and that is cut
12 right across, which would be horizontal to the
13 ground. And then all of that bone is removed.

14 Then we do look at -- then we do a
15 trialing, you know, which is insert the trial
16 components. The femur and the tibia. And a plastic
17 component, the height of which again is variable.
18 It depends on how much you have cut or how much
19 looseness there is in the ligaments. So we have
20 different sizes. They are two millimeters apart.
21 Put that in. You check the balance of the knee,
22 which is how stable it is in different degrees of
23 flexion. And how much flexion you get.

24 At that time, you know, I was -- I was not
25 replacing all the kneecaps, the back side of the

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1 kneecap, depending on how it looked. I would assess
2 it. And if it looked good and the tracking, which
3 means it was tracking centrally in the groove in the
4 femur, I would leave it alone.

5 In fact, that was -- I have abandoned that
6 now that I'm mostly treating people who work in an
7 office. And it's just interesting how folks up here
8 in Alaska do so much better with the kneecap not
9 replaced, because they're into the hunting and the
10 crawling, fishing, kneeling and all that that we do.
11 If you cut the back side of the kneecap and thin it
12 out, you are at risk for a fracture or other things.
13 So that's sort of customization for each patient.

14 Q. But in Los Angeles, people are more
15 sedentary?

16 A. Yes. Definitely.

17 Q. And so I think the term that's used a
18 little bit is patellar button?

19 A. Yes. The patellar button was not placed.
20 So after the trial is done and we are satisfied that
21 there's good range of motion, then we go ahead and
22 place those same size implants, and those are
23 cemented in place.

24 Q. You use one set to test or do the
25 trials?

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1 A. That is correct.

2 Q. And then it's a separate set --

3 A. Yes.

4 Q. -- that is then placed?

5 A. Those come in separate packs, and they're
6 only opened once you have decided which ones to use.7 And at the time of the trialing there's
8 another opportunity to change things a little,
9 release a few more ligament or cut the bone a little
10 more here or there, depending on how the stability
11 and balance and the range of motion is.12 And, you know, there was 120 degrees of
13 flexion at the time of surgery with no instability.
14 Without any sign of the lift-off of the tibial
15 component or any sign of pinching on the back side,
16 which would suggest a problem with the slope.17 Q. And when you say lift-off of the tibial
18 component, what do you mean?19 A. What happens is, you know, as has been
20 suggested, if there was truly a tibial slope problem
21 and this part of the component was up in the back,
22 as you bend the knee it would pinch this component
23 and tend to lift the front part of it off, because
24 it's pinching. And you would not be able to bend it
25 too far.

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1 And if it lifts off, we then step back and
2 say, okay, is the PCL too tight, or the posterior
3 cruciate ligament, which is that ligament, do I have
4 to release that to make it a little loose, or is the
5 slope not enough and I have to re-cut it into a
6 higher degree of slope.

7 And since it was a good amount of flexion,
8 good stability, well-balanced knee, no lift-off, it
9 was felt to be good.

10 Q. So there was no -- sorry. There's no
11 lifting off when you were doing the trials for
12 Mr. Crisco's knee?

13 A. That is correct.

14 Q. Okay. So that there was no additional
15 cuts that you felt were necessary to be made?

16 A. That is correct.

17 Q. And after you then tested the knee, what's
18 the next step?

19 A. After that, the real components are
20 cemented in place. The knee is then washed out,
21 which is just saline and irrigation. The tourniquet
22 is then released. If there's any bleeding, that is
23 controlled and the knee is then closed. Closing
24 each layer that was opened in separate layers.
25 Dressing is applied, and you go back to the recovery

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1 room and get an x-ray.

2 Q. Okay. And then, for Mr. Crisco's
3 operation, is everything -- I mean, is postoperative
4 recovery care fairly normal?

5 A. Immediate postop, fairly normal, yes.

6 Q. Okay. Without going through all the
7 records, I mean, the key problem with Mr. Crisco's
8 operation was, as he has testified, and his friends
9 have testified, as Dr. Hall I think touched upon, is
10 that he had complaints of pain after the surgery.
11 And from the time in January to the surgery until he
12 kind of left the VA care and went to Dr. Hall, you
13 were his primary physician for that care, correct?

14 A. Yes.

15 Q. Okay. So what did you do to try to get
16 down to the root of what was causing his pain?

17 A. Yes, I did. And, you know, the recovery
18 after a knee, especially if you've had previous
19 surgery, is -- it can be a little rough. And, you
20 know, the first few weeks we expect pain and
21 swelling. You're trying to get active, you can have
22 pain and swelling.

23 After that, once two or three months go
24 by, it becomes concerning. You know, there should
25 not be -- persistent pain is one thing, but if it is

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1 progressive, or if it is -- just doesn't seem to be
2 improving, we all worry, you know. And the number
3 one worry that we all have with knees is infection.

4 The second worry is, is there early
5 loosening of the implants, or something -- something
6 like a hematoma or something that's causing the
7 pain.

8 Q. And loosening, what would that entail? I
9 mean, just that the cement didn't take or --

10 A. Yeah. You know, I mean, this is -- it's
11 an unusual thing for an implant to come loose that
12 early, but we have seen it, you know, it's been
13 observed. And it's -- you're right. Either the
14 cement loosens from the bone or the implant loosens
15 within the cement. And that is sometimes observed.

16 So those are -- the main worry, of course,
17 for persistent pain is infection. And so, you know,
18 we -- we put those possibilities up and we got some
19 lab work, which is typically what you would do. An
20 ESR, or erythrocyte sedimentation rate, and
21 C-reaction protein blood count, you know, those are
22 the labs you would do, and they were fairly normalSo
23 the possibility of infection was then considered
24 low.

25 Also, the fact that somewhere between two

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1 and three months the range of motion was quite good.

2 And there were times when --

3 Q. Immediately postop you would not expect to
4 have tremendous range of motion, would you? I mean,
5 I'm talking the first, like, two weeks to a month?

6 A. No. The first -- it's quite variable.

7 But, yeah, the first couple of weeks you don't
8 expect more than 90 degrees, but certainly by six
9 weeks you expect, you know, 100, 105 degrees. By
10 three months you expect 110, 115, or more. You
11 would expect that.

12 What I had -- what I observed was, you
13 know, that there were times when -- and I think I
14 saw Mr. Crisco quite a few times over that course.
15 My routine was to see folks at two weeks, six weeks,
16 three months, and six months. You know, but
17 besides, I think, because of the persistent pain.
18 And a couple of times I think because of a fall, you
19 know, we worry that something came loose, or if
20 there's a fracture we want to check it. So those
21 are the times when we checked it.

22 And there were times when the knee looked
23 very good. Barely any swelling and good range of
24 motion. There were times when it looked swollen and
25 irritated and tender, still with good range of

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1 motion, but just not what we call a happy-looking
2 knee.

3 Q. And what would the characteristics of a
4 not-happy-looking knee be?

5 A. Well, mainly it's just complaints of pain
6 and then swelling. So my concern always was
7 infection, is there some infection going on that is
8 subtle that may need a knee aspiration.

9 And oftentimes, you know, in cases where
10 we cannot clearly find a cause or an infection, we
11 will then send people for a second opinion, or at
12 least have another set of eyes or hands feel it and
13 see if we are missing something.

14 Q. And I think you testified like, and I
15 think the records that we're about to -- at least
16 twice Mr. Crisco came in reporting that he had
17 fallen.

18 And what -- after a patient, I mean,
19 Mr. Crisco or anybody, reports that they've fallen,
20 you -- what do you do?

21 A. Examine the knee and get an x-ray, you
22 know, make sure that nothing's out of place or
23 nothing's fractured or came loose.

24 But my impression was, you know, that
25 there was significant quadriceps atrophy, which is

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1 the muscle up in the thigh. And once -- when you
2 have that, you can have a knee that keeps giving
3 out. Especially up and down stairs or on uneven
4 ground. And so --

5 Q. And what do you do to improve that?

6 A. Physical therapy.

7 Q. And I think you said that also you sought
8 second opinions from other orthopedic surgeons as to
9 Mr. Crisco's condition?

10 A. Yes.

11 Q. And what -- how do you -- how do you go
12 about doing that?

13 A. Usually we send out a note asking for an
14 opinion. You know, both Elmendorf and the Seattle
15 VA were considered our next level. You know, if we
16 wanted to get a second opinion, we would send people
17 to either Elmendorf Air Force Base or to the Seattle
18 VA.

19 Q. And did you do that on sort of a normal
20 basis?

21 A. Yes. It was, you know, mostly for -- for
22 cases that were unusual or -- yeah, they're mostly
23 for reasons like, you know, a back operation that
24 someone has had three times and now you don't know
25 what's going on, that sort of thing.

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1 In this case there was enough confusion, I
2 just wasn't convinced that we should be doing
3 anything aggressive, because it was relatively early
4 on in the recovery period.

5 Q. And I think you testified about sort of
6 like a normal recovery period for a knee
7 replacement, but is there a range, sort of within
8 normal?

9 A. Even today in the world of minimally
10 invasive and high tech, we think of most of the
11 recovery happening in about three months. But full
12 recovery taking about a year. That's the -- that's
13 considered the norm.

14 Q. Okay. I'd like to, at this point, sort of
15 run through some of the x-rays that were taken
16 before Dr. Hall's care.

17 A. If I may say something. I believe that
18 the overhead will show the x-rays quite well. If
19 you want to do it that way, if it's okay. Do you
20 want to try that?

21 Q. We can see. They're kind of -- they're
22 kind of small. It's...

23 THE COURT: Because we can't see the whole
24 x-ray, it would be helpful if you would be sure to
25 let me know which x-ray I'm looking at.

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1 MR. POMEROY: I think I'd rather just --

2 THE WITNESS: Okay.

3 MR. POMEROY: -- do the light.

4 THE COURT: I thought it was pretty good,
5 actually, but however you want to do it is okay with
6 me.

7 MR. POMEROY: (Indiscernible).

8 MR. KAPOLCHOK: Judge, may I move?

9 Thank you.

10 BY MR. POMEROY:

11 Q. Now, the first set of x-rays --

12 THE CLERK: Mr. Pomeroy, could you put on
13 the lapel or turn the mike --

14 MR. POMEROY: Okay.

15 THE CLERK: Because --

16 MR. POMEROY: How is that?

17 THE CLERK: That's fine. And then when
18 Dr. Bhagia speaks, he needs to be able to speak into
19 the microphone as well.

20 MR. POMEROY: Okay.

21 BY MR. POMEROY:

22 Q. The x-rays have been sort of grouped or
23 have been sorted out and marked by -- into groups
24 based upon the date that the x-rays were taken.

25 So these first set of x-rays would have

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1 been those that were ordered prior to his surgery, I
2 think -- I think the date's November 2000.

3 A. The date on this is 10/17/2000.

4 Q. And can you describe what the x-rays show
5 and why they were ordered?

6 A. The x-rays were ordered for complaints of
7 knee pain that was progressive. The x-ray shows --
8 on the right side is a knee replacement that just is
9 noted, by the way, and seems to be well-fixed. On
10 the left side you see a complete loss of joint
11 space.

12 On the medial side, or inner side of the
13 knee, compared to the outer side. The outer side
14 still seems to have some space. There's also metal
15 clips; we call these staples. These were used to
16 fix an osteotomy, which is cutting the bone, that
17 you can sort of see here.

18 That is the front view of AP view. This
19 one here is a skyline view or Merchant's view, it
20 shows where the kneecap tracks on the end of the
21 femur. Once again, you see spurs showing that
22 arthritis is not only present in the medial side,
23 but also in the patella femoral joint, which is that
24 joint between the kneecap and the femur.

25 THE CLERK: Mr. Pomeroy, what exhibit

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1 number is that, please?

2 MR. POMEROY: D-8 and D-9.

3 THE CLERK: Thank you.

4 THE WITNESS: These are lateral views of
5 the left and right knee. Lateral meaning from the
6 side. The right knee again shows a knee
7 replacement. The left shows evidence of arthritis,
8 spur formation, and also a change in the shape of
9 the upper tibia, proximal tibia, from the previous
10 operation.

11 An interesting or important point to note
12 on these when you are planning out an operation is
13 that the height of the knee joint, where it sits
14 relative to what we consider normal knee, this joint
15 is lower. And the patellar tendon, which is the
16 distance between the end of the kneecap to the
17 tibia, which is that tendon, is shortened compared
18 to this tendon. You can see quite a bit of
19 difference there. And that usually is, again,
20 something which can cause knee pain, especially
21 behind the kneecap, and problems later on.

22 Again, you know, even to an average
23 person, if it's pointed out that the top of this
24 fibula, which is that bone, is actually at the level
25 of the knee joint or above, which means that joint

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1 is lower compared to this, where even after
2 replacement and cutting the bone that bone is still
3 below the level of the joint.

4 So, you know, there's quite a bit of loss
5 of height in that knee. Shortening of the kneecap.
6 All factors which will cause mechanics of that knee
7 to be abnormal.

8 BY MR. POMEROY:

9 Q. And that's --

10 THE COURT: Where does the stuff go that
11 would otherwise make this left knee look right?

12 THE WITNESS: What happens is, you know,
13 this -- an actual wedge of bone is removed at the
14 time of the osteotomy. And depending on how much
15 deformity you correct. Now, we think of one
16 millimeter as correcting one degree. So if there's
17 a 10 degree deformity that you are trying to
18 correct, you will remove ten millimeters of bone.
19 That's a lot of bone that is removed.

20 THE COURT: Okay. Thank you. That's what
21 I was asking you.

22 BY MR. POMEROY:

23 Q. And so this would be, you know, described
24 as osteoarthritis?

25 A. This is osteoarthritis. Along with the

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1 previous osteotomy. And what is called the patella
2 baja, or low patella or shortened patellar tendon.
3 So, you know, those are just things that we would be
4 noting as part of the preoperative planning.

5 Q. And that was D-12 that you were just
6 referring to?

7 A. Yes.

8 Q. Which was -- which was of the left knee?

9 A. Right. D-11 is another view that is -- I
10 consider it's an extra view. It's with the knee
11 slightly bent and looking at it, it just shows the
12 spurs a little better, but we don't truly really
13 need that to plan out an operation.

14 THE COURT: That also shows, though, a
15 considerable narrowing of the gap on the left -- the
16 left knee as opposed to the right?

17 THE WITNESS: Yes. This is narrowed
18 compared to that. Also, interestingly, where the
19 knee sits, and if someone is standing both the knees
20 should be about at the same level. It just doesn't
21 look like -- you know, it looks like that knee is
22 higher.

23 So there's -- there's some change in the
24 mechanics there.

25 MR. POMEROY: That was D-11.

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1 THE CLERK: Thank you.

2 BY MR. POMEROY:

3 Q. The next set of x-rays were taken on --
4 after your surgery, correct?5 A. That is correct. This is dated 1/28/2001.
6 This is an AP, or front view and lateral view. And,
7 you know, the implants appear to be well-fixed.8 Q. What would you be looking for to determine
9 that they're well-fixed?10 A. Any space between the implant and the bone
11 would be considered a sign of loosening. There is
12 really no space that's very good. We call it the
13 interface between the bone and the metal is very
14 quiet. We shouldn't see any loose -- or sort of a
15 space or gap there.16 So, you know, that space is the plastic --
17 in fact, you can see an outline of the plastic liner
18 where it's taller in the front and narrower in the
19 back giving you that sort of in-built 3 degree
20 slope.

21 Q. And you're pointing to the x-ray at D --

22 A. 16.

23 Q. 16.

24 A. So that's -- and then these were just --

25 THE COURT: What were those two numbers?

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1 THE WITNESS: D-16.

2 BY MR. POMEROY:

3 Q. And then this view is D --

4 A. D-13.

5 Q. -- 13.

6 A. These are two more views on the same day.

7 There was -- you know, we don't -- we don't -- now I
8 don't get four views; I get two views. AP and
9 lateral. But at that time we used to get four views
10 and obliques. Especially when someone had a
11 deformity of the tibia like that, to make sure that
12 we look at it in all different ways. And those two
13 look -- look okay, as far as fixation and
14 everything.

15 Q. One thing that Dr. Hall had mentioned when
16 he was describing surgery, he said in his
17 description of his replacement surgery, he described
18 like a femoral notch this morning?

19 A. Yes. You might see that on a lateral
20 view, which is that side view.

21 THE CLERK: I'm sorry, what exhibit number
22 is that?

23 THE WITNESS: You can see it from the
24 front here --

25 MR. POMEROY: That's D-16?

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1 THE WITNESS: Yes.

2 MR. POMEROY: Yes.

3 THE CLERK: Okay.

4 THE WITNESS: You see it up in the front
5 here where the -- where the anterior cut of the knee
6 is made and if it runs into the -- into the bone. I
7 cannot see it on this view. I'm sure that if you
8 were to get -- because, you know, the two sides are
9 not level. The outer side is higher than the other
10 side of the knee. When you -- when you cut it on
11 one side, it runs flush with the front of the bone.
12 The other side, it's a little off, a little
13 different. And you might see that. I don't see it
14 here, but I don't know if he was looking at these
15 x-rays. Unless I'm looking at the last ones that
16 were done before Mr. Crisco went to him.

17 So, again, on this -- you know, at this
18 point I would bet, since there is all this
19 discussion about the slope, you know, since we don't
20 have full-length x-rays, we don't know what
21 references to use. And if we use the front cortex
22 or anterior cortex like was suggested, relative to
23 the bottom of the implant, you know, that -- that is
24 at 90 degrees. I would need a ruler for that.

25 But one of the rough ways is since --

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1 since this is 90 degrees, that angle, if you put
2 this along that angle -- sorry. You know, along the
3 anterior cortex, you will see that that is 90
4 degrees. Unfortunately, every view that is short is
5 inadequate to tell true alignment.

6 So I really wouldn't -- wouldn't try to
7 comment.

8 BY MR. POMEROY:

9 Q. Now, the next set of x-rays.

10 A. This is now March 12, 2001.

11 Q. And I think the medical records will show
12 this was -- these were ordered shortly after
13 Mr. Crisco reported falling on the ice in either
14 early -- end of February or early March.

15 A. So these are D-17, 18, 19 and 20. And,
16 once again, four views of the knee that do not show
17 any fractures or dislodgement or loosening of the
18 implant after the fall, which is the critical part
19 you'd be looking at.

20 Now, here's -- here's a place where I will
21 point out to you what might be considered a notch.
22 You see that little --

23 Q. Divot?

24 A. -- little --

25 THE COURT: I see what you're pointing at.

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1 THE WITNESS: Yes. So the little dip
2 here. And if you -- and --

3 BY MR. POMEROY:

4 Q. Is that normal?

5 A. Is it normal? You know, we -- the
6 notching of the femur is -- is one of those things
7 where you say, is it never acceptable? We try not
8 to notch the femur. And if the bone appears to be
9 between sizes. In other words, if I was to put a
10 bigger implant, right, like I mentioned, the
11 implants come in three-millimeter increments. And
12 if I put a bigger implant, now the knee is going to
13 be too tight. I'd much rather use a one-millimeter
14 notch and do the right size implant than use a
15 bigger implant to avoid the notch.

16 So that's sort of -- you know, when
17 they're in between sizes we have to pick. I
18 wouldn't go and notch it, but you're four
19 millimeters or five, because then you're weakening
20 the bone. But a millimeter notch is what it looks
21 like. And, you know, that's -- that's between the
22 implants.

23 So here's another lateral view. Once
24 again, you measure from the anterior cortex. To me
25 that looks very much like it. And then the

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1 polyethylene really shows the slope here. That to
2 me looks very good. Nice and tall in the front,
3 short in the back. That 3 or 4 degree slope is
4 built in.

5 If you were to measure from here, the
6 slope on the poly compared to the tibia, that's a
7 good slope. You can see that here.

8 You know, all the -- all manufacturers are
9 different. Zimmer does not have -- Zimmer poly, if
10 you -- I wish we would have thought of this.

11 But, you know, if you hold the Zimmer
12 polyethylene and the Smith & Nephew polyethylene in
13 your hands, you will see that the Zimmer
14 polyethylene is flat, better. And it's the same
15 polyethylene used for the right and left knee. They
16 don't differentiate between the two sides, whereas
17 this knee would make a right-sided and a left-sided
18 poly based on the different shape of the bone on the
19 two sides. Because when you look at the top of the
20 tibia -- if I can please have the model, I'll point
21 that out.

22 Q. Sure.

23 A. Thank you.

24 When you look at the top of the tibia, you
25 realize that the medial side of the tibia is bigger

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1 than the lateral side. And so when you make the
2 polyethylene, if you make both sides the same, you
3 can use it for right or left. There's less
4 inventory issues, less problems with everything.
5 And then you just adjust it from the bone cuts.

6 Whereas this one, Profix knee actually
7 made polyethylene that looked like this. It was
8 bigger on the medial side, it was taller in the
9 front, it had a slope built into it. So completely
10 different mechanics and principles of implanting
11 the -- that one. Compared to what I do now, I do
12 the Zimmer now and it's quite different.

13 Q. So this shadow here is part of the
14 polyethylene?

15 A. Yes. That shadow is the polyethylene.

16 Q. And that -- we're pointing at D-18.

17 A. So that's the model.

18 This is May 8th, 2001. D-21, 22, and
19 23.

20 Q. So about four months post-surgery?

21 A. About four months. And of course, you
22 know, the reason for all the x-rays was still the
23 concern. It's important to know that, you know, we
24 had a lot of compassion and, you know, this concern
25 about why this knee is painful, and, you know, we're

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1 always trying to look for it. And patellar
2 tracking, which is how it sits in that groove. Dent
3 of the bone.

4 Another potential cause of knee pain where
5 the tracking is off or the kneecap is tilted on one
6 side, again, was not present. You know, this looked
7 very good right in the center.

8 Once again, views with the implants.

9 Well-fixed with no gaps that are seen anywhere. And
10 again, you can see the shadow of the polyethylene,
11 which is that light color. The soft tissue appears
12 gray, and the plastic is completely dark because
13 it's translucent. And so it -- you can actually see
14 how it is built up in the front relative to the
15 back.

16 Q. And so structurally you look at these
17 x-rays which were D --

18 A. D-21, 22, 23.

19 Q. And --

20 A. Look at the x-rays and -- and become
21 confused. Because everything --

22 Q. Can you explain what --

23 A. -- everything looks good here. The knee
24 range of motion is good, but it is painful. So, you
25 know, you try and explain that, you try and get

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1 opinions and you list the possibilities.

2 And with knees, since the recovery time
3 oftentimes is one year, especially given all the
4 factors, such as previous operations, we tend to be
5 a little more conservative and we wait a little. We
6 wait and majority of the times things improve. One
7 year, 15 months, a year and a half, things will
8 improve with physical therapy, building up muscles,
9 and they -- you know, patients become a lot more
10 functional.

11 Q. Now, what's the date on the next set of
12 x-rays?

13 A. This is 6/11/01. And -- yeah, 6/11/01.
14 And again, no significant change that I would say
15 relative to previous x-rays.

16 So I think by this time we had decided to
17 go to Seattle for an opinion. And I think
18 Dr. Schumacher had already seen Mr. Crisco by this
19 time.

20 Q. In May.

21 A. So here's a magnified image, you know,
22 once again trying to see if there's any separation.
23 Sometimes you have to magnify the picture or, you
24 know, if you're looking for subtle changes. And I
25 don't see anything. You can again see the outline

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1 of the poly. All of that tracking is good.

2 Then we have D-28 and 29 from 7/18 of '01.

3 Once again, I would say no significant change. No
4 sign of loosening, the tracking is still good.

5 D-30 and 31 from 10/1/01. I think these
6 are all from October 1, 2001.

7 Q. Yes.

8 A. And it continues to show good tracking and
9 no sign of loosening.

10 Q. And this is D-30 --

11 A. 32 and 33. From October 1, 2001. I think
12 after this I was unable to see Mr. Crisco.

13 Q. I think Dr. Hall testified that he saw
14 Mr. Crisco about a week later.

15 MR. KAPOLCHOK: May I ask the last exhibit
16 number?

17 MR. POMEROY: D-32 --

18 THE WITNESS: 32 and 33.

19 MR. KAPOLCHOK: Thank you.

20 MR. POMEROY: I'd move for the admission
21 of the x-rays.

22 MR. KAPOLCHOK: No objection.

23 THE COURT: Do you have a complete rundown
24 of the ones that we're admitting? I ask that
25 because there is some gaps, I think, in the numbers.

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1 MR. POMEROY: There is one. I know that
2 there is some duplicate x-rays on a CD-ROM that
3 we're not going to be admitting. And there might
4 be -- I talked with Mr. Kapolchok earlier, there
5 might be some duplication between the x-rays that
6 he's offered and the ones that we have.

7 I'd offer that when the evidence --

8 THE COURT: Let's do this, because I don't
9 think there's going to be any kind of issue about
10 this.

11 Somewhere along the way, if you would give
12 us a complete list of the x-rays that we should have
13 as the final exhibits.

14 MR. POMEROY: Yes, Your Honor.

15 BY MR. POMEROY:

16 Q. I think a good place to sort of pick up is
17 when -- in the summer Mr. Crisco already having seen
18 Dr. Schumacher, whose deposition has been taken and
19 his exam notes been introduced.

20 Mr. Crisco is referred down to Seattle to
21 see Dr. Chansky; is that correct?

22 A. That's correct.

23 Q. And who is Dr. Chansky?

24 A. Dr. Chansky was one of the consultants, or
25 joint replacement surgeons at Seattle VA. He was

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1 actually, I think, head of department at that time;
2 I don't know what he is now.

3 Q. And did you give any like instructions or
4 talk to Dr. Chansky before he saw Mr. Crisco?

5 A. No. We send a consult asking for an
6 opinion. We don't want to bias them in any way, so
7 we basically send the records. I think there was
8 some problem with the records getting there. But we
9 don't tend to call or bias their opinions.

10 Q. Did you speak with Dr. Chansky after he
11 examined --

12 A. Yes.

13 Q. -- Mr. Crisco?

14 A. Yes. Because he called and advised me
15 that, you know, he had seen Mr. Crisco. He was
16 waiting for some of the records. And that his
17 feeling was that there were a couple of
18 possibilities. One of those being -- once again,
19 I'll say that, RSD, or complex regional pain
20 syndrome. But it wasn't definitive. You know, the
21 feeling was that it was the better part of -- or it
22 was prudent to wait, do physical therapy, and give
23 it some time and then reassess at a later date.

24 Q. And Mr. Crisco was on pain medication
25 during your period -- or time of treatment of him?

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1 A. Yes. I was -- I was making sure that we
2 were at least providing the pain medication and the
3 relief.

4 Q. And was there ever a consult to like a
5 pain specialist?

6 A. Yeah, I think so. You know, we -- the
7 pain management consult was also requested. It's
8 done for different reasons, in case there was
9 something else like, you know, the back problems
10 that might be contributing, if there was anything
11 needed, as far as epidural injections. That's
12 another way of treating RSD as well, is injections
13 in the back or sympathetic blocks. We wanted to see
14 if that was a consideration.

15 Q. Do you know if that was ever followed
16 through on?

17 A. I do not know.

18 Q. But that was within the universe of
19 treatment modalities that you were considering?

20 A. Yes.

21 Q. And then after Mr. Crisco returned from
22 Seattle, from his two trips to the VA there, what
23 was the treatment plan at that time?

24 A. At that time was basically pain
25 management, physical therapy, and keep following,

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1 wait, at least until about a year is up, so we know
2 that, you know, the natural course of healing is
3 done. And if there was still a persistent problem,
4 then to look at some other possibilities, you know.

5 One of the -- one of the pieces in this
6 puzzle was that he had a patella that was not
7 resurfaced. And sometimes that can be a source of
8 pain. And if it is persistent, you could go back in
9 and revise the patella alone and it can take care of
10 the problem, you know, so that's -- those were
11 things on our mind, although I don't think we
12 discussed that. But, you know, I think it was
13 early.

14 Q. And at some time during your treatment of
15 Mr. Crisco, did he express a desire to have a
16 revision surgery performed?

17 A. Yes. And, you know, that's something that
18 we see from time to time. You know, when the knee's
19 not recovering like expected, the patient will
20 oftentimes ask to have it redone or revised or
21 removed. And, you know, we have to discuss and make
22 that call.

23 Q. But that wasn't within the range of
24 options you were considering in September, October
25 for Mr. Crisco?

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1 A. No, I would -- I would wait a long time
2 before -- because the redo's are big operations.
3 You know, even now when I do the revisions, I think
4 a lot before redoing a knee that is painful and
5 well-fixed. A loose knee, an infected knee, that
6 has to be redone.

7 But a knee that's well-fixed and has pain,
8 you know, you -- you really have to be quite sure
9 that your intervention would take care of the pain.
10 Or that you know that this is the cause of the pain
11 that you're going after and that you will fix it.
12 It's not good enough to do a big operation and the
13 odds are a flip of a coin. You know, that's really
14 not -- I guess I believe that that's not how surgery
15 should be. You know, we like good odds.

16 Q. Now, you have mentioned several times here
17 that Mr. Crisco had good range of motion. And I
18 think you testified as to after-knee revisions -- or
19 knee replacement surgery, a range of motion that you
20 would be, you know, hoping for would be 0 to 120 or
21 125 --

22 A. Yes.

23 Q. -- is that correct?

24 If you had a tibial component that had an
25 anterior slope, would you expect to see a

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1 manifestation of that in the range of motion?

2 A. Yes.

3 Q. And how would it manifest itself?

4 A. Limited flexion or bending of the knee.

5 And it is quite -- quite consistent that if you have
6 a significant anterior slope instead of the
7 posterior slope, the bending is going to be limited,
8 oftentimes less than 90 degrees.

9 Q. So that if there was an anterior slope to
10 the tibial component, you know, that should be --
11 you should be able to confirm that by the range of
12 motion for the knee?

13 A. That is correct. And note that I'm saying
14 significant anterior slope. Because there is --
15 even though we have jigs and you're making all these
16 cuts believing that you're doing a 7 degree cut, you
17 know, it's not always 7 degrees. There's a wide
18 variation in the implantation of knees. It's
19 well-documented. Very experienced, high volume
20 surgeons who do a high volume of knee surgery, when
21 you look at their x-rays and you do a CT scan
22 analysis, which is the best way to check alignment
23 is a CAT scan, they found that only 90 percent of
24 the times can they get the knee aligned 0 plus or
25 minus 3 degrees. So 10 percent of the knees are

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1 outside that 6 degree range, which is considered
2 ideal.

3 So, you know -- and then you have to say:
4 what is a significant slope, what is a significant
5 alignment or malalignment. And so what I'm saying
6 is a malalignment or slope of significance would
7 limit the range of motion of flexion. And even then
8 I do not know if it would cause pain.

9 Q. Would an insignificant malalignment or
10 malposition -- I think we've been using
11 malposition -- would that cause pain?

12 A. No.

13 Q. And the last time that you saw Mr. Crisco
14 was roughly in the beginning of October 2001?

15 A. Yes. Either late September or very early
16 October of 2001.

17 Q. And after that you went to Dr. Hall, as I
18 understand?

19 A. Yes. I do remember bumping into him in
20 the hallway and talking about things. I never like
21 to let my patients go, as in abandon them in any
22 way, you know. Especially hard-working regular
23 guys, you know. But I was advised not to see him.

24 Q. And who were you advised by?

25 A. By the administration.

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1 Q. Okay. And finally, Mr. Crisco during his
2 testimony said that when you saw him roughly towards
3 the middle or end of February 2001 when he had the
4 infected stitch, that you said something to the
5 effect that -- or said to him and his wife, that you
6 don't fix your mistakes.

7 Do you recall that testimony this
8 morning?

9 A. I recall the testimony. I did not say
10 that I -- if -- I will challenge you to ask every
11 single person on earth who knows me, and they will
12 tell you that that's not my -- I don't talk like
13 that.

14 Q. Okay. So you have no recollection of what
15 conversation Mr. Crisco may be --

16 A. No. It was a stitch abscess. The stitch
17 needed to come out.

18 Q. You do recall the stitch abscess?

19 A. Yes.

20 Q. Okay. And I think, as maybe Mr. Crisco
21 testified, that once that was taken out the
22 infection cleared up?

23 A. Yes. That is fair. It's not a deep --
24 it's not an infection of the knee joint. It is a
25 superficial, right around one stitch. Because these

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1 stitches we use are sometimes -- they are dissolving
2 stitches. As they dissolve, the protein from that
3 can cause a reaction and what we call a stitch
4 abscess. As soon as the offending stitch is
5 removed, it goes away.

6 MR. POMEROY: Okay. Those are all the
7 questions I have.

8 THE COURT: Doctor, did I understand you
9 to say that a malalignment of that artificial knee
10 would not cause pain?

11 THE WITNESS: What we were talking about
12 is a significant malalignment. You know, the
13 correlation between alignment of the knee implants
14 and pain is extremely poor. We have all seen knees
15 that are 15 degrees malaligned. And they are 20
16 years out from their knee replacement and doing
17 perfectly fine. And we look at an x-ray and get
18 alarmed that it looks like it's sloping or slanting,
19 and the patient is extremely happy.

20 So, you know, the correlation between what
21 the picture shows and the clinical is so poor, that
22 we don't think of simply looking at an x-ray and
23 saying: this is a source of pain. It has to be
24 correlated with range of motion and how the patient
25 is doing, what are the other possible causes.

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1 So that -- you know, to say that a certain
2 angulation of an implant is the cause of pain, that
3 is not the case.

4 THE COURT: Thank you, sir.

5 Mr. Kapolchok.

6 MR. KAPOLCHOK: Thank you, Your Honor.

7 CROSS-EXAMINATION

8 BY MR. KAPOLCHOK:

9 Q. Good afternoon, Doctor.

10 A. Good afternoon.

11 Q. Do you recall I took your deposition when
12 you were still working for the Visalia Clinic --

13 A. Yes.

14 Q. -- several years ago?

15 Okay. I want to jump around a little bit,
16 because of the order of the testimony.

17 I'm looking at Dr. Chansky's note of his
18 one visit with Mr. Crisco, dated August 27th, 2001;
19 are you familiar with that?

20 A. I have read it in the past.

21 MR. KAPOLCHOK: Okay. Can we have
22 Exhibit D-5 for the witness, please.

23 MR. POMEROY: Sure.

24 MR. KAPOLCHOK: Thank you.

25 I move the admission of Defendant's D-5,

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1 Your Honor, so we can discuss it.

2 MR. POMEROY: No objection.

3 THE COURT: Exhibit D-5 is admitted.

4 (Exhibit No. D-5 admitted into evidence.)

5 BY MR. KAPOLCHOK:

6 Q. Do you need a moment to review it,
7 Doctor?

8 A. Yes. Please.

9 Okay.

10 Q. All right. Do you see where Dr. Chansky,
11 after visiting with Mr. Crisco on the 27th -- and
12 not having any records and not having any x-rays of
13 any sort -- said, "still my impression is that he
14 has a reflex sympathetic dystrophy-like syndrome
15 that would be best treated in Alaska by
16 rehabilitation medicine, perhaps anesthesiology."

17 Were you made aware of this note at some
18 time?

19 A. Yes.

20 Q. All right. Now, today you're telling --
21 you told us that you recall a telephone call with
22 Dr. Chansky?

23 A. Yes.

24 Q. All right. You actually recall a
25 telephone call with him about Mr. Crisco?

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1 A. Yes.

2 Q. And there's nothing in the medical
3 records; you made no entry in the medical records
4 about a consult with a consulting physician in
5 Seattle, no record whatsoever?

6 A. I will tell you that he did not call me
7 specifically to talk about Mr. Crisco, but I had
8 called him about another patient. And at that time
9 he mentioned that he had seen Mr. Crisco and we
10 discussed the case.

11 Q. And you remember, seven years later,
12 without making any note or annotation in the
13 records, any medical chart, that Dr. Chansky changed
14 his opinion and it's not RSD anymore, it's "you
15 should wait and see what happens"; that's what his
16 opinion was? Isn't that what you told us a few
17 minutes ago?

18 MR. POMEROY: Object to
19 mischaracterizing --

20 THE WITNESS: No, that's not what I said.

21 BY MR. KAPOLCHOK:

22 Q. Okay. Tell me what Dr. Chansky told you
23 that you remember.

24 A. No, I'm saying that's not what I said.
25 What he -- what I said we discussed was that a

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1 physical therapy regimen, which is exactly what's
2 written in the note, would be appropriate, which is
3 a rehabilitation regimen. And that as far as
4 anything regarding redoing the knee, it is best to
5 wait. Not that it is best to wait with any
6 treatment.

7 Q. Okay. A few minutes ago, Doctor, you told
8 the court that there is a well-documented high
9 variation in alignment.

10 Now, do you mean alignment of the knee
11 looking straight on, or do you mean alignment --
12 this is the foot -- of the knee in this position?
13 Knee replacements.

14 A. I do not understand the question. There
15 is a documented -- there are -- it's well-documented
16 that alignment of the knee, when you measure from
17 the center of the hip to the center of the ankle,
18 when you draw a straight line, the line does not
19 pass through the center of the knee.

20 When it passes through the center of the
21 knee, that's called a neutral alignment, or 0
22 degrees. And 3 degrees on either side is considered
23 ideal alignment. And if it is more than 3 degrees
24 off, that's what I was talking about.

25 Q. You weren't talking about the slope of the

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1 tibial tray on a knee replacement, were you?

2 A. No. There's very little documented about
3 the tibial slope.

4 Q. Okay. Now, when I -- I would like to
5 establish what the level of your experience was when
6 you did Mr. Crisco's knee replacement, January 1,
7 2001 -- or January 10, I believe, 2001.

8 When did you take your -- you took a year
9 off and did a fellowship at Mayo in Arizona?

10 A. Yes.

11 Q. When was that, sir?

12 A. Last year.

13 Q. Okay. And since that time, that -- excuse
14 me. That was after leaving the Visalia Medical
15 Clinic?

16 A. Yes. So it would be, you know, starting
17 about two years ago until last year. So August of
18 '05 to July of '06.

19 Q. And now what situation you're working in,
20 you're not back to Visalia, you're in Los Angeles?

21 A. Yes, it's -- West Hills is about 20 miles
22 west of Los Angeles.

23 Q. To work my way to January 10th, 2001 --
24 let me go back and understand your education.

25 In India you go from high school to

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1 medical school; is that correct?

2 A. That's correct.

3 Q. So you're 17, 18, when you're in medical
4 school?

5 A. Uh-huh. 18.

6 Q. 18. And then that's four years?

7 A. Yes.

8 Q. Okay. And then after that there is an
9 internship?

10 A. Yes. It's three levels of what we call
11 MBBS, which is the medical degree. Each year is
12 about -- each MBBS is about a year and a half, so
13 about four-and-a-half of medical school. And
14 there's an internship, which is one year after that.
15 And that is a rotating internship, much like we do
16 here. We rotate through different specialties.

17 Q. All right. And then in 1989, after that,
18 you left Bombay and came to the United States,
19 correct?

20 A. Yes.

21 Q. And what occasioned that, sir? Why did
22 you want to come to the United States in 1989?

23 A. Most of my wife's family was here, and so
24 we sort of made that move.

25 Q. So your wife's family, they're also from

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1 India?

2 A. Yes.

3 Q. And they had moved to the United States?

4 A. A long time ago, yes.

5 Q. Okay. So you wanted to join them?

6 A. Yes, we did.

7 Q. Okay. All right. And in order to stay in
8 the United States, you entered into an agreement
9 with the government to provide medical services, but
10 you had to complete an acceptable medical education;
11 is that fair? One that they accepted; I didn't mean
12 to pass judgment on you.13 A. Yeah. I don't know if that's how you
14 would put it. You know, I myself don't know how to
15 put it. It's called a J-1 visa. The J-1 visa is
16 basically called an exchange visitor visa.

17 Q. Right.

18 A. And the premise of that is that they would
19 allow you to train here with either the intent that
20 you would go back to your home country, exchange
21 visitor, go back to your home country for at least
22 two years after you were done, and then you would be
23 eligible to come back. Or, instead of going back
24 for two years, you could serve an underserved area
25 or U.S. Government entity for -- it has all -- it

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1 has changed. Used to be three years. I think now
2 it's five years.

3 Q. Okay. All right. And my understanding
4 from your testimony then is that you began -- is it
5 the Hospital of St. Raphael in Connecticut?

6 A. St. Raphael's Hospital, yes.

7 Q. In Connecticut. Now, is that -- did you
8 tell us that was part of the Yale University Medical
9 School?

10 A. That's the Yale affiliate, yes.

11 Q. All right. Now, that wasn't orthopedic
12 work of any sort; was it general surgery?

13 A. There were two years there.

14 Q. Right.

15 A. The first one is called a transitional
16 internship.

17 Q. Right.

18 A. Which is again rotating internship,
19 different things. You do electives and internal
20 medicine. And I think I did a couple months of
21 orthopedics there as an elective.

22 And the second year there was general
23 surgery. Which is, again, you know, it incorporates
24 some orthopedics and some surgical training.

25 Q. No knee replacements there?

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1 A. As part of the orthopedic rotations I
2 would participate in knee replacements.

3 Q. In what way?

4 A. As an assistant.

5 Q. As an assistant; okay.

6 And then you went to the medical college
7 of Georgia; is that right?

8 A. That is correct.

9 Q. All right. And completed their program.
10 And they give you a certificate of graduation,
11 correct?

12 A. Yes.

13 Q. And you were exposed to some orthopedic --
14 strike that. I apologize, I made a mistake.

15 You were exposed to some total knee
16 replacements while at the medical college of
17 Georgia?

18 A. It wasn't some, it was quite a bit.

19 Q. Okay. But at no time did you perform one
20 on your own without either a supervisor or you
21 assisted in it or you observed, but at no time did
22 you perform a total knee replacement by yourself,
23 unsupervised, while at the medical college of
24 Georgia; is that correct?

25 A. I would qualify that, if you wouldn't

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1 mind. When you say "by yourself" and "under
2 supervision," those can both be correct. Because
3 under supervision means that someone is watching
4 you, they're not holding your hand. So yes, I did
5 do knee replacements on my own, but my attending,
6 who is the surgeon who is always there, you know,
7 but he's not telling me what to do or how to do it.
8 That happens in the first three years of your
9 residency. And each residency is different and each
10 resident is different in how much responsibility
11 they are given. And you advance according to your
12 abilities.

13 Q. At any rate, not to debate this to the Nth
14 degree, but at all times there was a senior
15 orthopedic experienced surgeon observing you at a
16 minimum, correct?

17 A. Yes.

18 Q. Right. And he would tell you if he saw
19 something wrong?

20 A. Absolutely.

21 Q. All right. Thank you.

22 Now, in late '98 you came to Alaska?

23 A. That is correct.

24 Q. And you began work essentially at the
25 beginning of '99; agree with that?

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1 A. October 1, '98.

2 Q. Is when you arrived?

3 A. Yes. That's when I started.

4 Q. All right. And when you arrived with the
5 VA, there was one other orthopedic surgeon with the
6 VA, Dr. Paton?

7 A. Yes.

8 Q. And when you did Johnnie's surgery a year
9 and two months later, Dr. Paton had long left the
10 premises, hadn't he?

11 A. Yeah. Once again, I'm not very clear on
12 exactly when he left.

13 Q. And Dr. Paton then was the only other
14 orthopedic surgeon for a short period of time, and
15 then on January 10th of 2001, you were the only
16 orthopedic surgeon employed by the VA here in
17 Anchorage?

18 A. That is correct.

19 Q. And at that time you were not licensed in
20 Alaska, and you explained that you didn't need to
21 be --

22 A. Yes.

23 Q. -- is that correct?

24 A. And you didn't obtain a license because
25 you did not intend to stay; that's correct?

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1 A. Yes. I -- I don't know if I was clear on
2 that, by that time, but sometime later it became
3 clear that we would be moving.

4 Q. Right. And you were not board certified
5 at that time; that's correct, isn't it?

6 A. That's correct.

7 Q. All right. And that you only had done on
8 your own, unassisted, or unattended by a senior
9 surgeon, you had only done a very few knee
10 replacements; that's correct, isn't it?

11 A. Few as in 50?

12 Q. What's your recall, sir?

13 A. I would have to pull the records. But my
14 recollection is that it was about 25 to 50 joints a
15 year when I pulled the averages at the end of my
16 tenure.

17 Q. Well, you arrived in October of '98.
18 October of '99, January, that would be what, 14
19 months? 16 months?

20 A. So October '98 to October '99 is one year.
21 October '99 to 2000, October, is two years. And
22 three more months. So three years and three
23 months.

24 Q. Okay. Now, do you understand my question
25 to mean all joints, or just total knee

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1 replacements?

2 A. Even total knee replacements is what --
3 that's why I'm asking, what is a few. And, once
4 again, we can go into the statistics of what -- you
5 know, what low-volume surgery or high-volume surgery
6 means.

7 But I think I would say -- you know, if I
8 was to pull the records, I would say it would be
9 about 50.

10 Q. About 50?

11 A. Yeah.

12 Q. All right.

13 THE COURT: Is that 50 a year or 50 in
14 that 27 months?

15 THE WITNESS: No. 50 in that 27 months.

16 BY MR. KAPOLCHOK:

17 Q. Knees?

18 A. Yes.

19 Q. Total knee replacements?

20 A. That's correct.

21 Q. In your deposition you told me 40, a
22 couple years ago.

23 A. Okay. So, close.

24 Q. Close.

25 Now, you'd agree with me that an improper

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1 or a malposition of a tibial tray to create an
2 anterior slope, would you agree with me that's a
3 failure in surgical technique, or it's something
4 that can be controlled by surgical technique? Let's
5 take out the failure.

6 A. Yes. Anterior slope can be controlled
7 with surgical technique.

8 Q. Okay. And your testimony today, I
9 believe, is that you used an -- and correct me if I
10 mispronounce this -- intramedullary post or shaft or
11 pin to place the cutting block on the tibial tray;
12 is that correct?

13 A. Yes.

14 Q. And if that is the tibia, this is the top
15 of the tibia, Dr. Hall said that if you used the
16 intramedullary manner, you take a drill and you
17 drill a hole in the bone.

18 A. Uh-huh.

19 Q. Is that right?

20 A. That's correct.

21 Q. In the center, more or less?

22 A. More towards the front.

23 Q. Okay. And then you use a rod that's
24 prepared by Profix to put into that hole?

25 A. That's correct.

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1 Q. And then you put the cutting block on the
2 rod?

3 A. Yes.

4 Q. All right. Now, the Profix system
5 provides a cutting block with a 4 degree angle in
6 it, doesn't it?

7 A. Yes.

8 Q. And the Profix knee system also has a 3
9 degree built-in angle or slope in it, doesn't it?

10 A. Yes.

11 Q. And if both are used, you end up with a 7
12 degree posterior slope?

13 A. That is correct.

14 Q. And the Zimmer knees that you use now
15 after your fellowship, are designed for a 7 degree
16 posterior slope, correct?

17 A. That is incorrect.

18 Q. It's not correct? Okay.

19 Would you agree with me, Doctor, that
20 if -- what is this alignment guide, rod, or
21 whatever, that's used? Is it called an alignment
22 guide?

23 A. Yes. It's the intramedullary alignment
24 guide.

25 Q. Would you agree with me if that is off,

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1 then your cutting block is going to be in error?

2 A. See, the cutting block is not just one.

3 You have the option of using a 0 or a 4 degree, just
4 like in a Zimmer you have the option of using a 3 or
5 a 7 degree. And you pick the one that seems to work
6 the best for that patient.

7 And, yes, it is true that if the alignment
8 rod is inserted, depending on where it is inserted
9 on the surface of the tibia, you can change that
10 alignment by a couple of degrees. I don't think you
11 can change it a whole lot.

12 But it is also true that you can then
13 adjust the cutting block to -- to have a couple
14 degrees of adjustment. Even though it says 0 or 4,
15 it doesn't have to be 0 or 4. Because when you put
16 the guide on that, you pin it. And the position you
17 pin it in is the final position on that block.

18 Q. Is it your testimony here today that it
19 was your intent to make a 90 degree cut across the
20 tibia; in other words, a 0 degree slope?

21 A. That's correct.

22 Q. Do you recall that?

23 A. Yes.

24 Q. Did you document that?

25 A. I don't think I dictated that, but that's

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1 what I was doing in most knees that had good flexion
2 at that time.

3 Q. Doesn't the Proform (sic) manufacturer's
4 material, doesn't it recommend a 4 degree posterior
5 slope for a number of reasons?

6 A. It has -- I haven't read it recently. But
7 I would imagine that it has the option of both using
8 0 and 4 degrees.

9 Q. Well, it may provide the option. But my
10 question, Doctor, is, doesn't the Profix material
11 recommend a 4 degree posterior slope as beneficial
12 for a number of reasons?

13 A. I would have to look at it.

14 Q. Okay. Isn't one of those -- well, would
15 one of those reasons be that you can use a larger
16 femoral component by having a posterior slope?

17 A. I -- no.

18 Q. You don't believe so? All right.

19 A. You know, I mean, this is -- this is such
20 a limited way to look at a knee. You know, the --

21 Q. It may be, but I thought my question --
22 I'm trying to make it narrow.

23 By using a 4 degree cut and increasing the
24 posterior slope to 7 degrees, isn't one of the
25 benefits of that to the doctor, and the patient, is

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1 to allow you to use a larger femoral component?

2 A. No.

3 Q. Okay.

4 A. That is not the case.

5 Q. All right. The notching you did, was that
6 to use a large -- the notching you did in the femur,
7 was that to use a larger femoral component or a
8 smaller one?

9 A. Smaller one.

10 Q. Okay. Do you recall telling me in your
11 deposition -- let me pass that.

12 You were present during Dr. Hall's
13 testimony?

14 A. Today?

15 Q. Yes.

16 A. Yes.

17 Q. And you heard that Dr. Hall thought that
18 if you had a 7 degree anterior slope, as opposed to
19 a posterior slope, you would be able to recognize
20 that when you trialed the knee after you put the
21 final components in?

22 A. That's correct.

23 Q. Do you agree with that?

24 A. Yes.

25 Q. The x-ray I had Dr. Hall look at...

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1 Could you identify that x-ray for us,
2 please?

3 A. It is an x-ray, a lateral view of the
4 knee, from 10/12/2000.

5 Q. Isn't that one of the lateral views that
6 you examined under testimony with the government's
7 lawyer?

8 A. Yes.

9 Q. Okay.

10 A. Or you would have to check that, because
11 it's not the same size, so probably a little
12 difference.

13 Q. Can you read the date?

14 A. It's 10/12/2000.

15 Q. Okay. Do you see the lines that have been
16 drawn on that x-ray to show degree of slope?

17 A. Yes, I see the lines.

18 Q. Do you disagree that the tibial tray on
19 that knee, you disagree that it has 5 to 7 degrees
20 of anterior slope?

21 A. You cannot tell slope on a short x-ray.

22 Q. That x-ray, in your view, Doctor, is too
23 short to do an accurate slope measurement?

24 A. Yes. There are two ways of checking
25 alignment. One is a full length x-ray, and the

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1 second is a CT scan. Those are the most accurate.

2 These are limited views. And, you know,
3 you can -- you can actually put up all the x-rays,
4 lateral views, and you'll measure a different slope
5 on different x-rays.

6 THE COURT: Even though you're looking at
7 the same --

8 THE WITNESS: Same knee.

9 THE COURT: -- knee?

10 THE WITNESS: Yes, sir.

11 BY MR. KAPOLCHOK:

12 Q. All right. When Dr. Chansky suggested
13 that RSD was within the differential diagnosis, can
14 you tell me why you, as Mr. Crisco's primary
15 orthopedic doctor, did not order a bone scan?

16 A. A bone scan would be positive eight months
17 after a knee replacement. It will show higher
18 uptake.

19 Q. All right. So it's your opinion that the
20 bone scan, taken by Dr. Hall in October after your
21 knee replacement, would not be diagnostic of hot
22 spots on the knee for mechanical problems, or
23 diagnostic for RSD, because it's too close to the
24 original implants? It's too close chronologically;
25 is that your testimony?

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1 A. A bone scan is a nonspecific test. It
2 only shows increased uptake when there is some
3 inflammation. Or one interesting thing is that the
4 bone scan, as was mentioned in that testimony, it
5 has -- it is not to do with white cells, it has to
6 do with bone cells. I would want you to correct
7 that. Because it has to do with bone turnover.

8 And when you do a bone scan, the third
9 phase of the bone scan shows bone uptake. And
10 because we have done an operation and there is
11 increased turnover of bone cells, it's going to show
12 an increased uptake related to the operation.

13 And that turnover, because we say healing
14 of the total knee takes more than a year, that bone
15 scan or bone turnover remains high for at least a
16 year. That's why the bone scan stays positive for a
17 year or a little longer.

18 And so, you know, if we do a test, we
19 should be able to draw conclusions from the test.
20 And, you know, if I order a test that is
21 nonspecific, it only confuses the issue more.

22 And so, you know, for RSD, the first thing
23 is to do a rehabilitation program. The second step
24 would be to see if some injections or epidurals or
25 sympathetic blocks work. And then, if all of that

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1 is not working, then perhaps -- and if it's been
2 more than a year, then a bone scan would be
3 helpful.

4 Q. So according to your testimony, Doctor, a
5 bone scan will not be helpful unless it's done after
6 one year, with respect to a knee replacement?

7 A. Yes. That is correct.

8 Q. All right. And what is the diagnostic
9 tool of choice for dealing with RSD, in your view,
10 Doctor? For trying to determine whether there's
11 RSD. Is it the bone scan?

12 A. That can be one of the -- that can be one
13 of the tools, yes. You know, unfortunately, that is
14 why RSD or what's called complex regional pain
15 syndrome now is a diagnosis of exclusion. Because
16 if we had one test which you could do and prove that
17 this is what it is, everyone would be doing it. It
18 wouldn't be such a big sort of diagnosis. And the
19 other is called a diagnosis of exclusion.

20 So once you have ruled everything out, as
21 far as infection and loosening, that's when you call
22 it RSD. And that's why I don't think we had labeled
23 him as an RSD at that point. Even though we had an
24 opinion from Dr. Chansky, I don't think we had for
25 sure said this is what it is and it's nothing

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1 else.

2 Q. Have you read your expert's opinion in
3 this case, Dr. Vigeland?

4 A. No.

5 Q. You have not looked at it?

6 A. No.

7 Q. Would you be surprised to learn that he's
8 going to offer an opinion that Mr. Crisco either had
9 RSD or an infection?

10 A. I would not be surprised.

11 Q. Do you think Mr. Crisco had an infection
12 while he was under your care?

13 A. No.

14 Q. Do you think he had an infection when he
15 was seen by Dr. Ross in October of 2001, just before
16 he saw Dr. Hall?17 A. No. Although, I'll tell you that because
18 the implications of infection are so bad, we always
19 think of that as a possibility. Do I think he had
20 it? No. But if you -- if you look at every note I
21 wrote, I will always write in there "persistent
22 pain; is it an infection," you know.23 Q. With regard -- I'm sorry. Did I
24 interrupt?

25 A. No, I'm fine.

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1 Q. Doctor, with regard to your record
2 keeping, let me ask you a few things.

3 Normally, in planting a Profix knee -- oh,
4 let me ask you. Of that 40 or 50 that you did, were
5 those Profix components?

6 A. Yes.

7 Q. Normally, in a normal implant of Profix
8 components, since you came to Alaska and started
9 doing them on your own, would you normally end up
10 with a 7 degree posterior slope?

11 A. No.

12 Q. You would not?

13 A. Vast majority of them I was cutting at 0
14 degrees or neutral.

15 Q. Then you would end up with a 3 degree
16 posterior slope --

17 A. Yes.

18 Q. -- correct? All right.

19 At a minimum?

20 A. Yes.

21 Excuse me. Can we take this one down?

22 Q. Oh, sure. Sorry.

23 A. Because I'm hanging on to it because it
24 might fall.

25 Q. Thank you.

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1 A. Thank you.

2 Q. Doctor, do you have an opinion one way or
3 the other, given what you know about Mr. Crisco, as
4 to whether or not he had reflex sympathy dystrophy
5 prior to surgery by Dr. Hall? And you have three
6 choices. You don't have to have an opinion.

7 A. No, I -- I don't feel strongly one way or
8 another.

9 Q. Okay. I'm not sure what that means. You
10 don't have an opinion?

11 A. I do not have an opinion.

12 Q. Okay. Would you agree with me that your
13 operative report on Mr. Crisco does not document
14 that you trialed the final components?

15 A. I did -- I think I mentioned a trial in
16 there.

17 Q. I take it you have read your operative
18 report recently?

19 A. I have read it recently, but I would
20 probably want to look at it if -- I believe that I
21 mentioned in there that I did a trial of the knee
22 components.

23 Q. After the installation of the final
24 components? After they were cemented in?

25 A. After they were cemented in, that's not a

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1 trial, that's the final knee.

2 Q. But you try it to see if everything glued
3 together right, don't you?

4 A. Yes. We test -- we test the final knee
5 for stability and tracking.

6 Q. Now, tracking is a different problem than
7 what we're talking about, isn't it?

8 A. Yes.

9 Q. Tracking is the patella going up and
10 down?

11 A. Yes. No, what I'm saying is -- now I
12 understand what you're asking.

13 When we say trial, we talk about trial
14 components, which are not the final components.
15 Once the final components are put in, we just check
16 the knee for stability and tracking and balance is
17 what we call it. In other words, it's balanced
18 well, front to back and side to side. And I don't
19 know if I have mentioned it in there.

20 Q. Okay. But you would agree with me that a
21 trial after the final components -- let me back up.

22 The trial components are discarded, the
23 final components are selected and cemented, and then
24 there is a trial of the knee as it is reformed or --

25 A. Yes.

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1 Q. -- put together?

2 A. Yes.

3 Q. And that's the standard of care; you have
4 to do that?

5 A. Yes.

6 THE COURT: I take it you don't usually
7 call that last step a trial.

8 THE WITNESS: No, we don't call it a
9 trial, because the final components are in.

10 THE COURT: It's already done.

11 THE WITNESS: And it's all done. And
12 unless there is some circumstance where you just
13 can't bend it or it's blocked, I don't see that you
14 would take everything out. If there was a problem,
15 yes, you might, you know, as in if it was severely
16 stiff or malformed or the alignment was changed,
17 then you might do something with it.

18 MR. KAPOLCHOK: Thank you, Your Honor.

19 BY MR. KAPOLCHOK:

20 Q. I think I'm confused now, because I -- in
21 talking to Dr. Hall and looking at his operative
22 report, he talks about a trial of the final
23 components. Is that not what you write in?

24 A. No. A trial of the -- a trial of
25 components is always a trial of the different -- the

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1 trial components are not the final components. Once
2 the final components are opened, you've completed
3 the trial, you've made your adjustments, you've done
4 the releases and the cuts, whatever needs to be
5 adjusted, and you -- once you decide this is what
6 you are going to put in, that's what is opened and
7 that's what is put in. You bought it. That's what
8 you accept.

9 Q. Okay. Dr. Bhagia, for the first time,
10 since this case has been going on for years and
11 years and years, I hear now a discussion of the high
12 tibial osteotomy.

13 The x-rays you showed showed that
14 Mr. Crisco had some bone removed to help what, do
15 you remember what -- I know you didn't do it, but do
16 you remember what it was for?

17 A. I can only tell you what a high tibial
18 osteotomy is done for, and I assume that would be
19 the reason to do it. And that is to realign the leg
20 for arthritis when it is worn out more on one side
21 than the other.

22 Q. Right. To level it?

23 A. To level it.

24 Q. Do you know how much bone was taken out of
25 Mister -- did you review that operative report?

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1 A. No. I do not know how much bone was taken
2 out.

3 Q. Are you now saying that that surgery that
4 Mr. Crisco had -- do you know when it was?

5 A. I believe it was in the '80s.

6 Q. In the '80s.

7 Are you now saying that that had some
8 bearing on whether or not Mr. Crisco's knee was put
9 in with anterior slope or posterior slope?

10 A. No, that is not what I am saying.

11 Q. Okay.

12 A. What I am saying is that previous
13 operations, such as a high tibial osteotomy, have a
14 bearing on persistence of pain or the rate of
15 recovery after a knee replacement.

16 Q. Okay. When you diagnosed Mr. Crisco as an
17 appropriate candidate for a total knee replacement,
18 one of the reasons he was in there was because of
19 pain?

20 A. Yes.

21 Q. And was it your opinion at that time that
22 some of his pain was caused by the high tibial
23 osteotomy?

24 A. No.

25 Q. The court asked you a question in

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1 reviewing some of those x-rays of where all the
2 height or separation goes between the femoral bone
3 piece and the tibia. And most of that is cartilage,
4 isn't it?

5 A. The space between the --

6 Q. The space.

7 A. -- the femur and the thighbone and the leg
8 bone --

9 Q. Yeah.

10 A. -- which is the femur and the tibia, is
11 cartilage.

12 Q. Yeah. And in Mr. Crisco's case, after
13 laying carpets and doing stuff for 40 years, it was
14 just worn out, wasn't it?

15 A. Yeah. The knee was worn out. But I was
16 pointing out the height, actual level of the knee
17 joint. You know, the level of the joint can go up
18 or down based on how much bone is removed. Besides
19 the fact that the padding inside the knee can wear
20 out.

21 Q. Wear out; okay.

22 A. So...

23 Q. Those are the -- you were comparing the
24 side-by-side x-rays?

25 A. Yes.

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1 Q. Okay. That's good.

2 That didn't make Mr. Crisco less of a
3 candidate to have his knee replaced, did it? The
4 fact that he had had a high tibial osteotomy?

5 A. No.

6 Q. Despite that you think that a bone scan is
7 not -- and correct me if I'm overstating this or
8 misstating.

9 Despite that you think that a bone scan is
10 not properly diagnosed at -- diagnostic if it's not
11 later than a year after the implantation, did you
12 review the bone scan that Dr. Hall took and make a
13 judgment as to whether his findings were correct or
14 not?

15 A. I have not seen that. I have read reports
16 on that.

17 Q. Okay.

18 A. I've read the report. And I'm not saying
19 it is wrong to do a bone scan. It's just you have
20 to interpret it more carefully if it's early on,
21 because it may cause you to do things which may not
22 be appropriate.

23 Q. There are many reasons to do a revision to
24 a knee, correct?

25 A. Yes. That is correct.

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1 Q. Many of them are not at all related to any
2 failure to meet the standard of care; would you
3 agree with that?

4 A. Yes, that is correct.

5 Q. Infection is one of them, correct?

6 A. Yes.

7 Q. Malpositioning is one of them, is a reason
8 to do a revision?

9 A. It is a relatively rare indication. The
10 top reasons are infection and loosening of the
11 implants.

12 Q. And loosening of the components, that's
13 another one.

14 Would you agree with me, Doctor, that the
15 literature says that 11 percent of the revisions are
16 done because of malpositioning of components?

17 A. Approximately --

18 Q. Approximately 11 percent.

19 A. -- that.

20 Q. All right. Would you further agree with
21 me, Doctor, that most of those revisions are done
22 within a year, for malpositioning of components,
23 most of those revisions, based on the literature, 11
24 percent are done -- not 11 percent of those, but 11
25 percent of the revisions done for malposition, most

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1 of those, more than 50 percent of them, are done
2 within a year?

3 A. Once again, I'm going to say yes, but
4 this -- just like you pointed out, you know, is this
5 a malposition of the slope or is it a malposition of
6 the varus and valgus, which is the sideways rather
7 than front to back angulation. Because I think that
8 if -- again, you know, you have to see if it's
9 causing instability. If it's causing limited range
10 of motion.

11 You know, the reasons to do a revision are
12 not what the picture shows, what the x-ray shows.
13 That is very important to distinguish here. You
14 know, when you say that revisions are done for
15 malalignment or malposition, it's not that people
16 are looking at an x-ray and saying "oh, this needs a
17 revision," that is absolutely not the case.

18 So it is true that, you know, revisions
19 are done for malalignment, 10 percent or so. And it
20 is -- it's almost exactly the number that I was
21 stating outside that ideal range, even when
22 experienced surgeons do that. So it coincides very
23 well with the literature that, you know, the knees
24 are not aligned well about 10 percent of the times.
25 But those have to be associated with some symptoms

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1 or findings of instability, you know, a loose knee,
2 that would -- that's what causes you to do -- redo a
3 revision, not just a picture.

4 Q. What about the picture that Dr. Hall at
5 least sees as being significantly having a wrong
6 slope, then accompanied by pain; would that be a
7 valid reason to do a revision?

8 A. That's where opinions come in. That's
9 where -- you know, when you train on different sets
10 of implants you can have different opinions.

11 MR. KAPOLCHOK: Dr. Bhagia, thank you.

12 Thank you, Your Honor.

13 REDIRECT EXAMINATION

14 BY MR. POMEROY:

15 Q. I just have a couple questions to clarify
16 a couple of points that Mr. Kapolchok raised.

17 You testified that during your time when
18 you began at the VA in October 1998 to the time of
19 Mr. Crisco's surgery, you estimate you did about 40
20 to 50 total knee replacements.

21 Did you do any total knee replacements
22 either as the primary surgeon or as assisting when
23 you were in your residency in India, residency for
24 orthopedic surgery.

25 A. No, I did not.

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1 Q. Okay. So how many total knee replacement
2 surgeries did you participate in, in one form or
3 another, during your residency at the medical
4 college in Georgia?

5 A. Again, I can figure up probably a hundred.
6 Around a hundred. It's a rough number. Because,
7 you know, we just -- we do a tally at the end of the
8 residency, and you come out with certain hundred
9 numbers of joints. And we just -- you know, the
10 first three years you are basically assisting, and
11 then you are doing it. So I would say about a
12 hundred.

13 Q. And...

14 MR. POMEROY: Actually, those are the only
15 points I wanted to clarify. Thank you.

16 THE COURT: It's almost 4 o'clock. Let's
17 call it a day at this point.

18 Thank you, Doctor --

19 THE WITNESS: Thank you, sir.

20 THE COURT: -- you may step down.

21 We'll resume at 9 o'clock tomorrow
22 morning.

23 And if you would not forget to give us a
24 rundown on exactly what x-ray exhibits we have
25 admitted.

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1 We're in recess until 9 o'clock tomorrow
2 morning.

3 THE CLERK: All rise.

4 This matter is in recess until 9 a.m.
5 tomorrow.

6 (Proceedings recessed; Counter 3:56:00.)

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1 TRANScriber's CERTIFICATE

2

3 I, KATHERINE L. NOVAK, RPR, Registered

4 Professional Reporter, hereby certify that the

5 foregoing transcript is a true, accurate, and

6 complete transcript of proceedings in Case No.

7 3:03-cv-0011-HRH, Crisco versus USA, transcribed by

8 me from a copy of the audiotaped recording to the

9 best of my ability.

10 Further, that I am a disinterested person
11 to said action.

12

13

14 Date

15

16

17 Katherine L. Novak, Transcriber

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